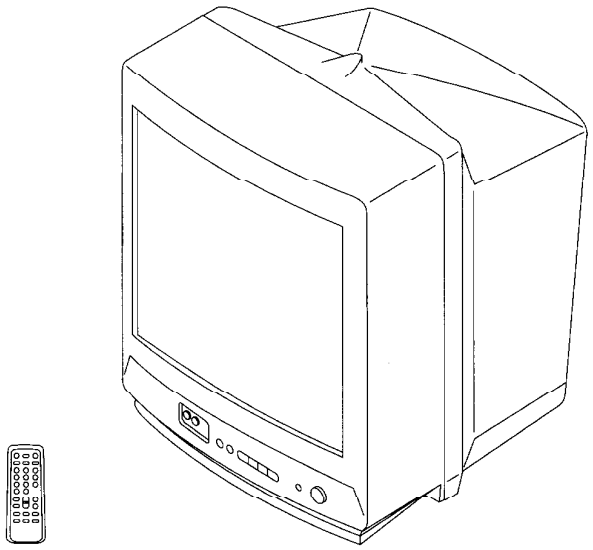
SERVICE MANUAL

BG-2S CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.	MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-G14M2	RM-869	ME	SCC-U07C-A				
KV-G14M2S	RM-869	GE	SCC-U07C-A				
KV-G14P21S	RM-869	GE	SCC-U05L-A				
KV-G14P2S	RM-869	GE	SCC-U05H-A				
KV-G14Q2	RM-869	E	SCC-U03F-A				
KV-G14Q2	RM-869	ME	SCC-U07D-A				
KV-G14Q2S	RM-869	GE	SCC-U05J-A				
KV-G14S2	RM-869	OCE	SCC-U04B-A				



MICROFILM

TRINITRON® COLOR TV

SONY®

SPECIFICATIONS

		Note
Power requirements	110-240 V AC, 50/60 Hz	
Power consumption (W)	Indicated on the rear of the TV	
Television system	B/G, I, D/K, M	KV-G14M2/M2S
	B/G	KV-G14P21S/P2S/Q2/S2
Color system	PAL, PAL 60, SECAM, NTSC4.43, NTSC3.58	KV-G14M2/M2S/Q2
	PAL, PAL 60, NTSC4.43, NTSC3.58 (AV IN)	KV-G14P21S/P2S
Teletext language	English, French, Arabic	KV-G14P21S only
Channel coverage		
B/G	VHF: E2 to E12 / UHF: E21 to E69 / CATV: S01 to S03, S1 to S41	
I	UHF: B21 to B68 / CATV: S01 to S03, S1 to S41	KV-G14M2/M2S only
D/K	VHF: C1 to C12, R1 to R12/UHF: C13 to C57, R21 to R60 / CATV: S01 to S03, S1 to S41, Z1 to Z39	KV-G14M2/M2S only
M	VHF: A2 to A13 / UHF: A14 to A79 / CATV: A-8 to A-2, A to W+ 4, W+ 6 to W+ 84	KV-G14M2/M2S only
Audio output (speaker)	3W	
Inputs	⅂ (antenna): 75 ohms external terminal	
	(video input) jacks: phono jacks (video): 1 Vp-p, 75 ohms ♪ (audio): 500 mVrms, high impedance	
Outputs	(earphone) jack: mini jack	
	(monitor output) jacks: phono jacks (video): 1 Vp-p, 75 ohms ♪ (audio): 500 mVrms	
Picture tube	14 in.	
Tube size (cm)	37	Measured diagonally
Screen size (cm)	34	Measured diagonally
Dimensions (w/h/d, mm)	373 × 346 × 412	
Mass (kg)	11	

Design and specifications are subject to change without notice.

CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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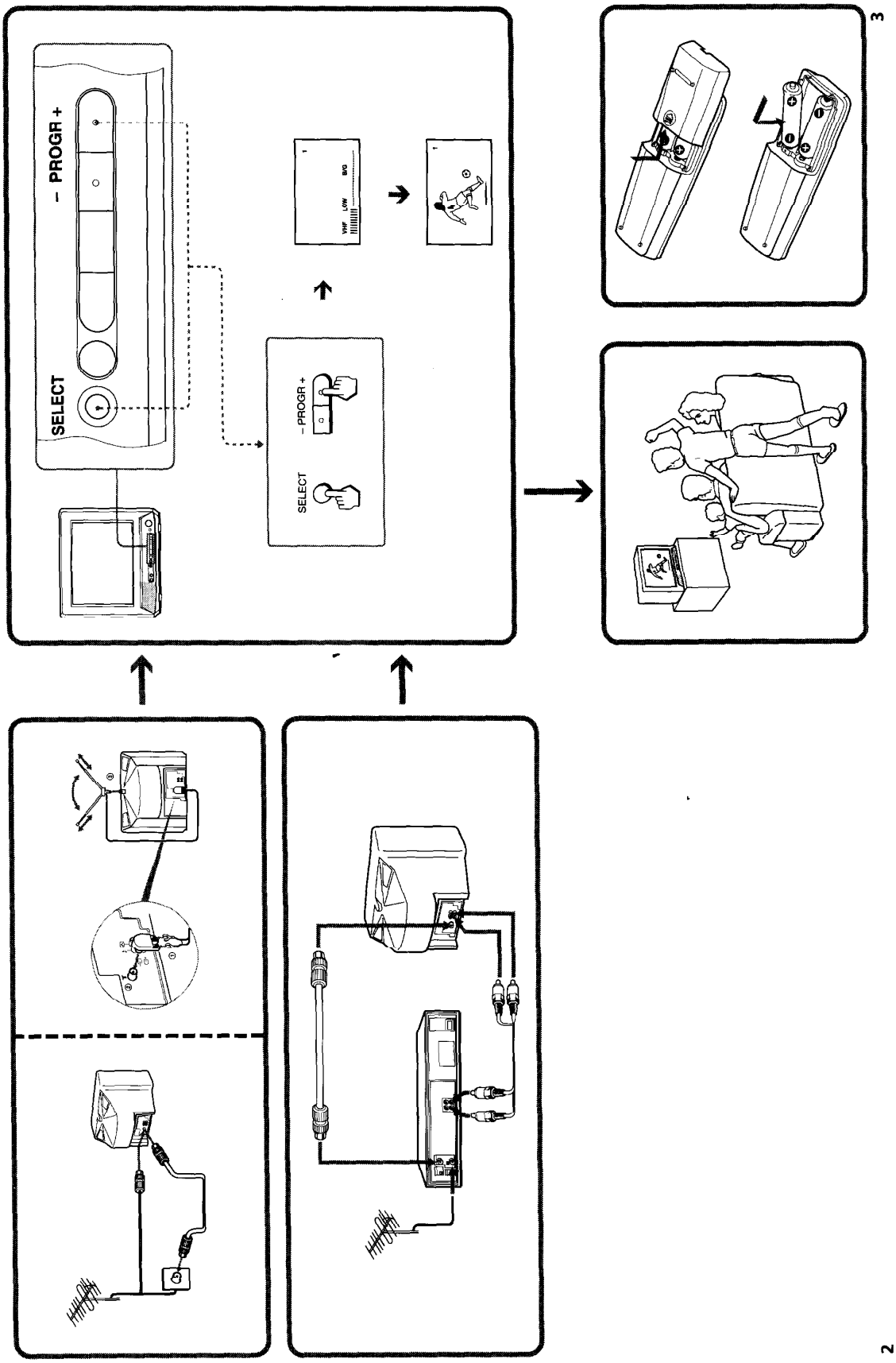
SECTION 1
GENERAL

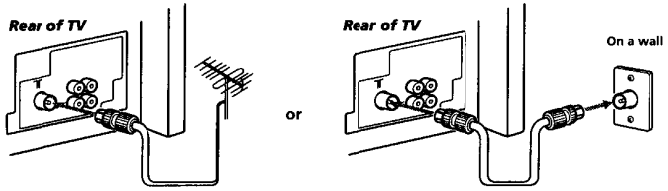
The operating instructions mentioned here are partial abstracts from the Operating Instructions Manual. The page numbers of the Operating Instruction Manual remain as in this manual.



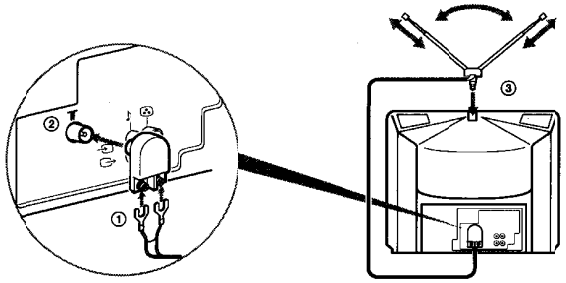
Connections

Connecting a VHF antenna or a combination VHF/UHF antenna — 75-ohm coaxial cable (round)

Attach an optional IEC antenna connector to the 75-ohm coaxial cable.
Plug the connector into the 𝕋 (antenna) socket at the rear of the TV.



Connecting an indoor antenna



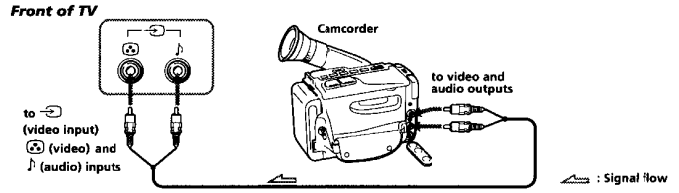
Note

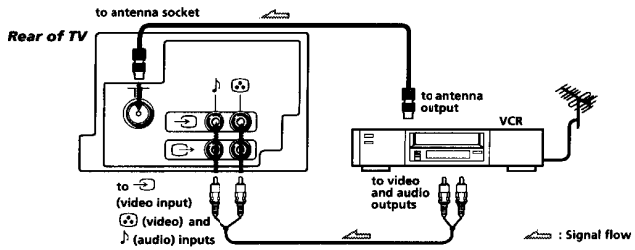
- You are advised to use an outdoor antenna for better reception.

Connecting optional equipment

You can connect optional audio/video equipment to your TV such as a VCR, multi disc player, camcorder, or video game

Connecting video equipment using the ⇦ (video input) jack

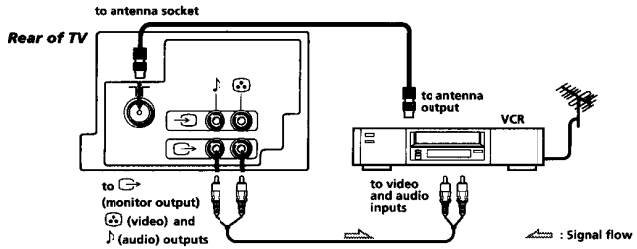




When connecting video equipment to the ⇦ (video input) jack

Do not connect video equipment to the ⇦ (video input) jacks at the front and the rear of your TV simultaneously; otherwise the picture will not be displayed properly on the screen.

Connecting audio/video equipment using the ⇨ (monitor output) jack



When recording through the ⇨ (monitor output) jack

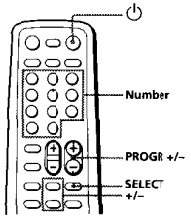
Do not change the channel or video input while recording with a VCR; otherwise the channel or video input you are recording also will be changed.

Presetting channels

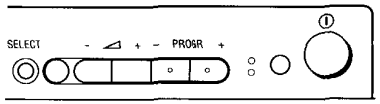
You can preset up to 100 TV channels in numerical sequence from program position 1 using the buttons on the remote commander or the TV.

You can preset TV channels quickly, automatically or manually.

Remote commander



Front of TV

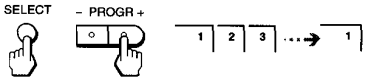


Quick channel presetting

1 Press ⏻ to turn on the TV.

When the TV is turned on in standby mode, press ⏻ on the remote commander.

2 Press SELECT and PROGR + on the TV simultaneously for one to two seconds.



If the picture color is poor and/or the sound is noisy (for KV-G14M2/G14M2S only)

Select the appropriate TV system as follows:

1 Press SELECT on the remote commander or the TV until "TV SYSTEM" appears.

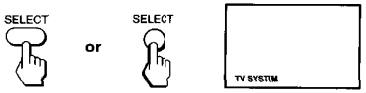
2 Press +/– on the remote commander or ◿ +/– on the TV until the picture and sound becomes normal.

Notes

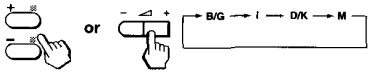
- If you do not know your local TV system, consult your nearest authorized service center or dealer.
- The setting of the "TV SYSTEM" is memorized for each program position.

Presetting channels automatically

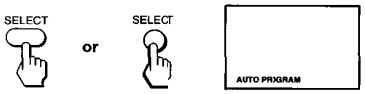
1 Press SELECT on the remote commander or the TV until "TV SYSTEM" appears on the screen (for KV-G14M2/G14M2S only).



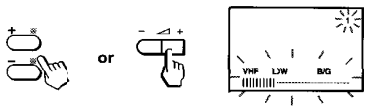
2 Press +/– on the remote commander or ◿ +/– on the TV to select the TV system (for KV-G14M2/G14M2S only).



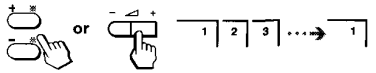
3 Press SELECT on the remote commander or the TV until "AUTO PROGRAM" appears on the screen.



4 Press +/– on the remote commander or ◿ +/– on the TV.

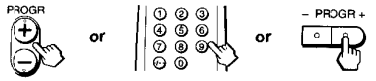


5 Press +/– on the remote commander or ◿ +/– on the TV again.



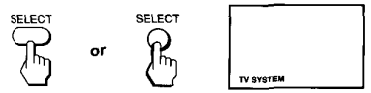
To start presetting channels automatically from the specified program position

Press PROGR +/– or number buttons on the remote commander or PROGR +/– on the TV until the required program position appears on the screen after step 4 of "Presetting channels automatically".

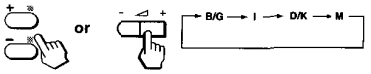


Presetting channels manually

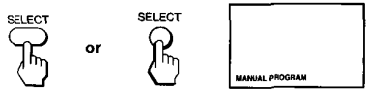
1 Press SELECT on the remote commander or the TV until "TV SYSTEM" appears on the screen (for KV-G14M2/G14M2S only).



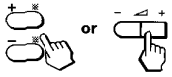
2 Press +/– on the remote commander or ◿ +/– on the TV to select the TV system (for KV-G14M2/G14M2S only).



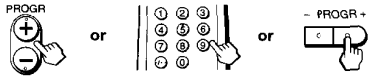
3 Press SELECT on the remote commander or the TV until "MANUAL PROGRAM" appears on the screen.



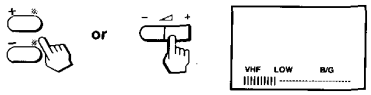
4 Press +/– on the remote commander or ◿ +/– on the TV.



5 Press PROGR +/– or number buttons on the remote commander or PROGR +/– on the TV until the required program position appears on the screen.



6 Press +/– on the remote commander or ◿ +/– on the TV until the required channel picture appears on the screen.



7 Press SELECT on the remote commander or the TV.

Disabling program positions

1 Press PROGR +/– or number buttons on the remote commander or PROGR +/– on the TV until the unused or unwanted program position appears on the screen.

2 Press SELECT on the remote commander or the TV until "MANUAL PROGRAM" appears on the screen.

3 Press +/– on the remote commander or ◿ +/– on the TV.

4 Press PIC MODE on the remote commander.

5 Press SELECT on the remote commander or the TV.

To preset the disabled program position again

Preset the channel quickly, automatically or manually.

Watching the TV

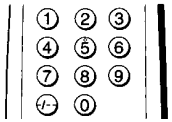
1 Press ⏻ to turn on the TV.

When the TV is turned on in standby mode, press ⏻ on the remote commander.

2 Select the TV program you want to watch.

To select a program position directly

Press the number button.



To select a two-digit program position, press "-/--" before the number buttons.

For example: to select program position 25, press "-/--," and then "2" and "5."

To scan through program positions

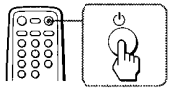
Press PROGR +/– until the program position you want appears.

3 Press ◿ +/– to adjust the volume.

Turning off the TV

To turn off the TV temporarily

Press ⏻ on the remote commander. The ⏻ indicator on the TV lights up.



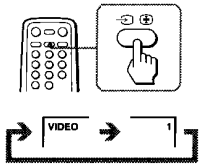
To turn off the TV completely

Press ⏻ on the TV.

If the power on the TV is turned off in standby mode, the ⏻ indicator on the TV may remain alight for a while.

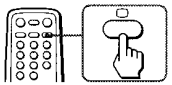
Watching the video input

Press ⮕ .



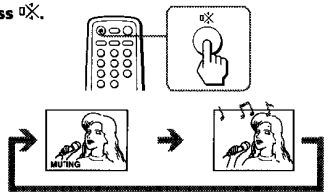
To watch TV

Press ▢.



Muting the sound

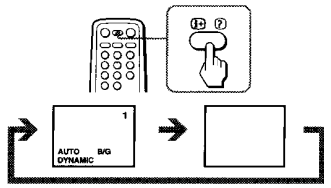
Press 🔇.



Displaying on-screen information

Press ⓘ ?.

The program position, local system, and TV settings are displayed on the screen.

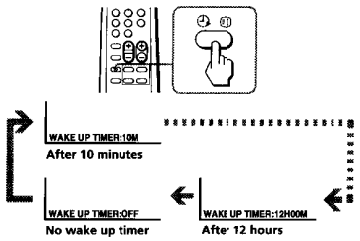


Setting the Wake Up Timer

You can set the TV automatically turned on as you program.

1 Press 🕘 ⓘ repeatedly to set the timer.

The on-screen display appears and the 🕘 indicator on the TV lights up.



2 If you want a particular TV program or video input to be displayed using the Wake Up Timer, select the TV program or video input.

3 Press ⏻ on the remote commander or set the Sleep Timer to turn off the TV in standby mode.

To cancel the Wake Up Timer, press 🕘 ⓘ repeatedly until "WAKE UP TIMER: OFF" appears, or turn off the main power of the TV.

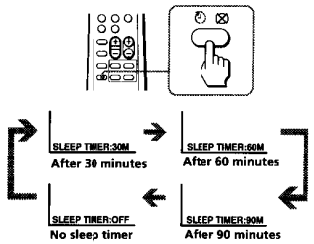
Note:

- The Wake Up Timer starts immediately after the on-screen display disappears.
- The last TV program position or video input just before the TV turns into standby mode will appear when the TV is turned on using the Wake Up Timer.
- If no buttons or controls are pressed for more than two hours after the TV is turned on using the Wake Up Timer, the TV automatically turns into standby mode. If you want to continue watching the TV, press any button or control on the TV or remote commander.

Setting the Sleep Timer

You can set the TV automatically turned off as you program.

Press 🕘 ⊠.

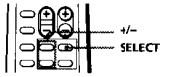


To cancel the Sleep Timer, press 🕘 ⊠ repeatedly until "SLEEP TIMER: OFF" appears, or turn off the TV.

Changing the on-screen display language

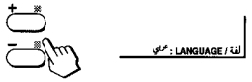
■ ***For KV-G14M2/G14Q2(ME)***

You can use buttons on the remote commander or the TV to change the on-screen display language.



1 Press SELECT until the screen appears as follows:

2 Press +/– to select "عربي".



Note

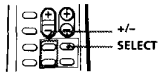
- You can also use SELECT and ◿ +/– on the TV to select the on-screen display language.

KV-G14M2/G14M2S/G14P21S/G14P2S
KV-G14Q2/G14Q2S/G14S2
RM-969

Changing the on-screen display language

■ *For KV-G14M2S/G14P2S/Q14Q2(E)/G14Q2S/G14S2*

If you prefer Chinese to English, you can use buttons on the remote commander or the TV to change the on-screen display language.



1 Press SELECT until the screen appears as follows:

2 Press +/– to select "中文".

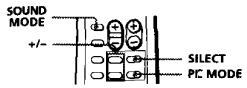
Note

- You can also use SELECT and +/– on the TV to select the on-screen display language.

Adjusting the picture

Note on the SOUND MODE button

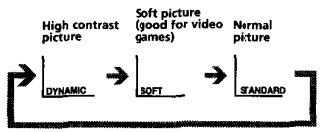
- The sound mode feature is unavailable for your TV. Thus, the SOUND MODE button on the remote commander is not used for your TV.



Selecting the picture mode

Press PIC MODE until the mode you want appears.

Each time you press PIC MODE, the screen changes as follows:



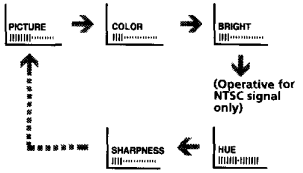
Note

- If you change the picture mode after the following adjustments, the adjustment changes in accordance with the picture mode.

Adjusting the picture setting

1 Press SELECT until the item you want to adjust appears.

Each time you press SELECT, the screen changes as follows:



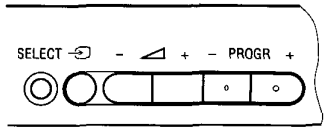
2 Press +/– to adjust the item.

3 To adjust other items, repeat steps 1 and 2.

Note

- You can also use SELECT and +/– on the TV to adjust the picture setting.

Front of TV



If the picture color is abnormal when receiving programs through the (antenna) terminal
Change the "TV SYSTEM" (for KV-G14M2/G14M2S only) or "COLOR SYSTEM" setting or adjust the "COLOR" level in the on-screen display until the color becomes normal.

If the picture is abnormal when receiving programs through the (video input) jack
Change the "COLOR SYSTEM" setting or adjust the "COLOR" level in the on-screen display until the color becomes normal.

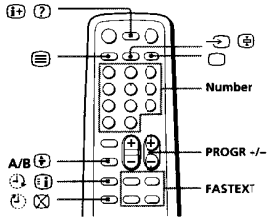
Note

- Normaly set "COLOR SYSTEM" to "AUTO".

If the sound is distorted or noisy when receiving programs through the (antenna) terminal
Change the "TV SYSTEM" setting (for KV-G14M2/G14M2S only) in the on-screen display until the sound becomes clear.

Viewing Teletext

■ ***KV-G14P21S only***



For the KV-G14S2 and KV-G21S2 models, you need the Teletext adaptor OPK-T400G (not supplied) to view the Teletext broadcast. You can request your nearest authorized service center or dealer to install the Teletext adaptor into your TV.

Displaying Teletext

1 Select a TV channel which carries the Teletext broadcast you want to watch.

2 Press ☰ to display the Teletext.

A Teletext page (normally the index page) appears on the screen. If there is no Teletext broadcast, 100 appears at the top left corner of the screen.

To turn off Teletext, press ▢.

Checking the contents of a Teletext service

Press ⏱ ⓘ to display an overview of the Teletext contents and page numbers.

Selecting a Teletext page

Press the number buttons to enter the three-digit page number of the Teletext page you want.

If you make a mistake, enter the correct page number again.

To access the next or previous page, press PROGR +/–.

You can also access a Teletext page of any page numbers that appear in the colored column at the bottom of the screen using the corresponding color-coded button on the remote commander.

Holding a Teletext page

Press ⮌ ⊕.

The symbol "⮌⊕" appears at the top left corner of the screen.

To resume normal Teletext operation, press ⮌ ⊕ again or ☰.

Using FASTEXT

This feature allows you to quickly access a Teletext page that uses FASTEXT. When a FASTEXT program is broadcasted, a colored menus appear at the bottom of the screen. The colors of the menus correspond to the red (+), green (SELECT), yellow (–), and blue (PIC MODE) color-coded buttons on the remote commander.

To access a FASTEXT menu, press the color-coded button on the remote commander that corresponds to the colored menu which appears at the bottom of the screen. The menu page appears on the screen after several seconds.

Revealing concealed information

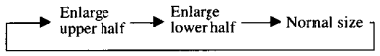
Press ⓘ ?.

To conceal the information, press ⓘ ? again.

Enlarging the Teletext display

Press A/B ⊕.

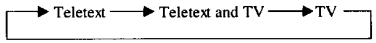
Each time you press A/B ⊕, the Teletext display changes as follows:



Superimposing a Teletext page on the TV picture

Press ☰.

Each time you press ☰, the screen changes as follows:



Waiting for a Teletext page while watching a TV program

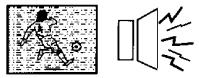
1 Enter the page number of the Teletext you want to refer, then press ⏱ ⊠.

2 When the page number appears on the screen, press ☰ to turn on the Teletext.

Troubleshooting

If you have any problems, read this manual again and check the countermeasure for each of the symptoms listed below.
If the problem persists after trying the methods below, contact your nearest authorized service center or dealer.

Snowy picture
Noisy sound



➡ Check the antenna.
➡ Check the antenna connection on the TV and on the wall.
➡ Check the TV SYSTEM setting (for KV-G14M2/G14M2S only).

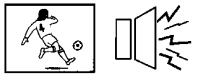
Dotted lines or stripes

➡ This may be caused by local interference (e.g. cars, neon signs and hair dryers). Adjust the antenna for minimum interference.

Double images or "ghosts"

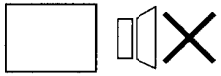
➡ This may be caused by reflections from nearby mountains or buildings. A highly directional antenna may improve the picture.

Good picture
Noisy sound



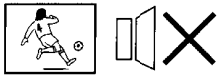
➡ Check the TV SYSTEM setting (for KV-G14M2/G14M2S only).

No picture
No sound



➡ Press ⏻ or ⏻.
➡ Check the antenna connection.
➡ Check the VCR connections.
➡ Check the power cord connection.
➡ Check the standby mode.

Good picture
No sound



➡ Press 🔊 +.
➡ Press 🔇.

No color

➡ Adjust the COLOR level in the on-screen display.
➡ Check the COLOR SYSTEM setting.

TV cabinet creaks

➡ Even if the picture or the sound is normal, changes in the room temperature sometimes make the TV cabinet expand or contract, making a noise. This does not indicate a malfunction.

Note on the remote commander

- The supplied remote commander is used on several models of the TV. If you do not find instructions for some controls that are on the remote commander, that means your TV does not employ the features of those controls, e.g. ☰ and SOUND MODE.

Notes

- When you turn on the TV, you may hear the "boon" sound that is caused by the demagnetization of the TV. This does not indicate a malfunction.
- The picture color may become abnormal if you change the direction of your TV. To obtain the normal picture color, press ⏻ on the TV to turn off the TV for five minutes and then turn it on again.
- Design and specifications are subject to change without notice.
- All contents in the instruction manual are subject to change without notice.

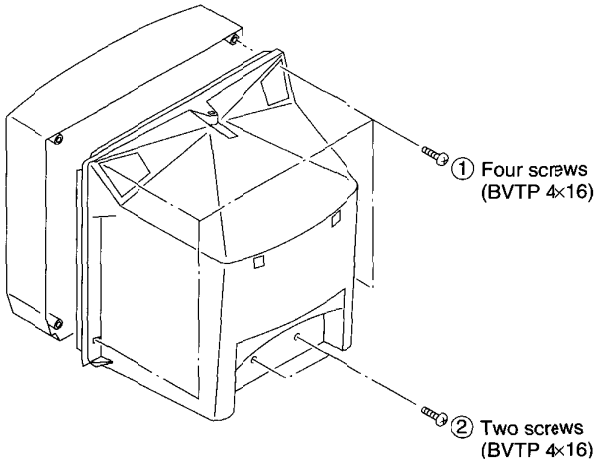
WARNING

Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.

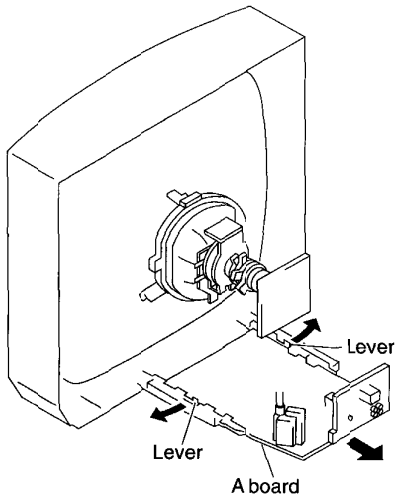
KV-G14M2/G14M2S/G14P21S/G14P2S
KV-G14Q2/G14Q2S/G14S2
RM-869

SECTION 2
DISASSEMBLY

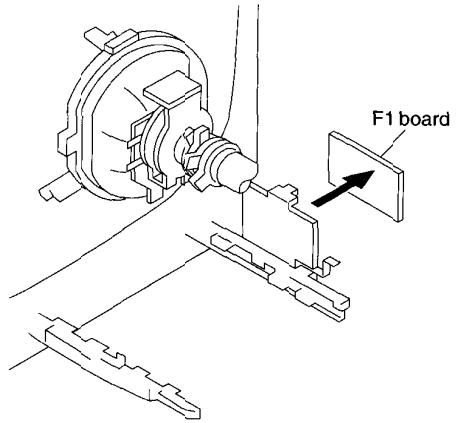
2-1. REAR COVER REMOVAL



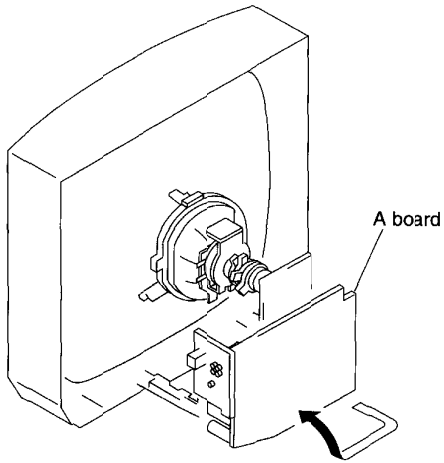
2-2. A BOARD REMOVAL



2-3. F1 BOARD REMOVAL (for KV-G14S2 only)



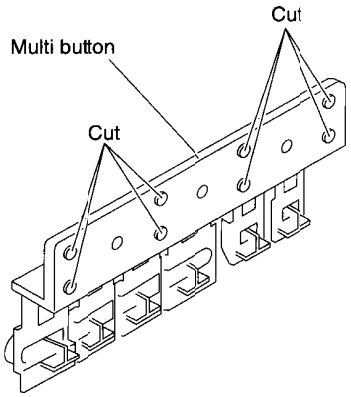
2-4. SERVICE POSITION

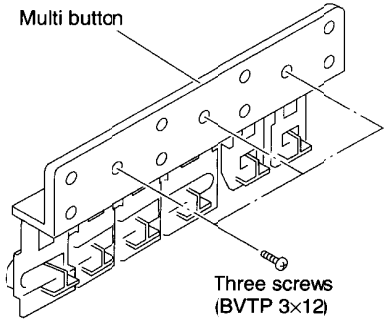


2-5. REPLACEMENT OF PARTS

For replacement of the Multi Button and Light Guide, cut the welded portions from them, exchange with the new parts, and fix them with screws (+BVTP) respectively.

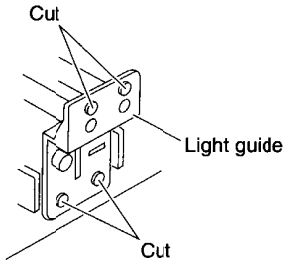
2-5-1. REPLACEMENT OF MULTI BUTTON

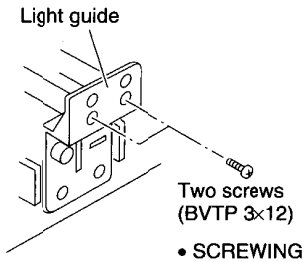




• SCREWING TORQUE
7±1 kg•cm

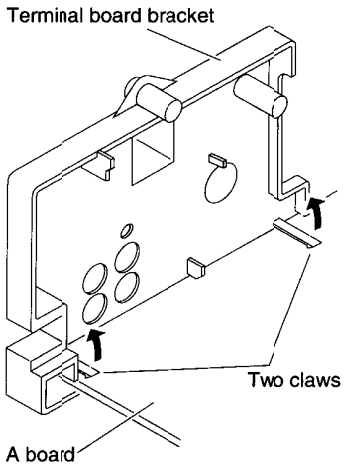
2-5-2. REPLACEMENT OF LIGHT GUIDE

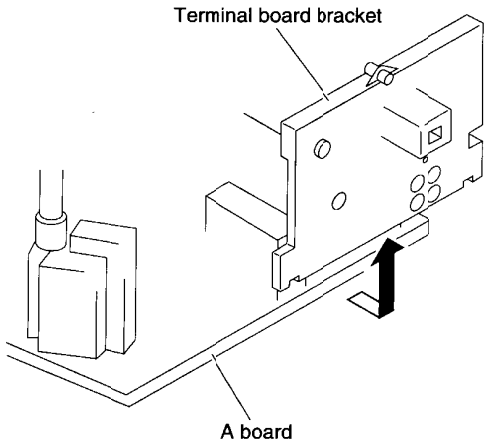




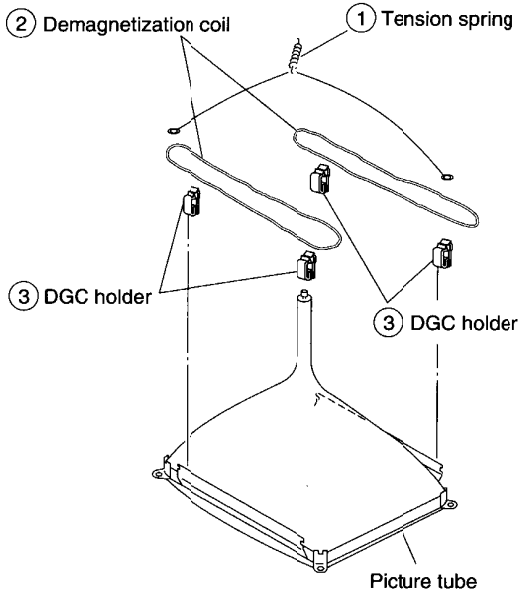
• SCREWING TORQUE
7±1 kg•cm

2-6. TERMINAL BOARD BRACKET REMOVAL

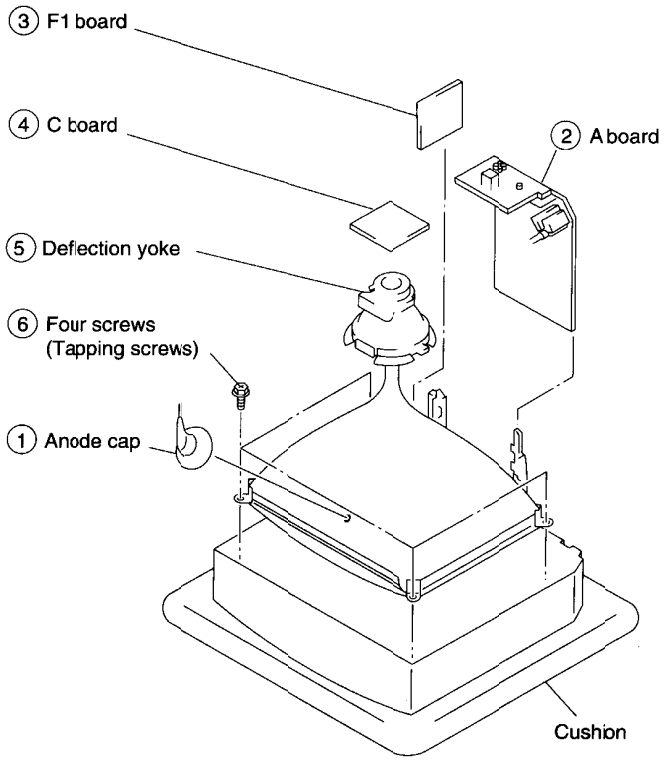




2-7. DEMAGNETIZATION COIL REMOVAL



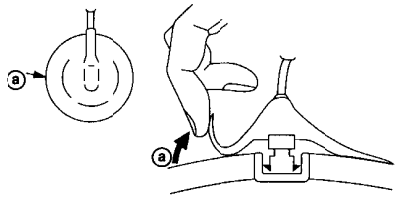
2-8. PICTURE TUBE REMOVAL



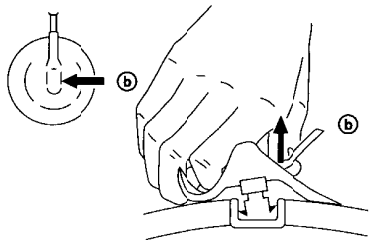
• REMOVAL OF ANODE-CAP

NOTE : After removing the anode, short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT.

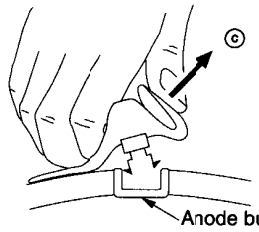
• REMOVING PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ.



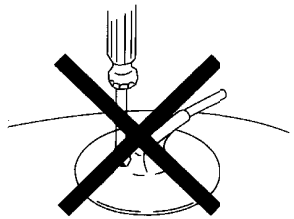
② Using a thumb press down, then pull up the rubber cap firmly in the direction indicated by the arrow ⓑ.

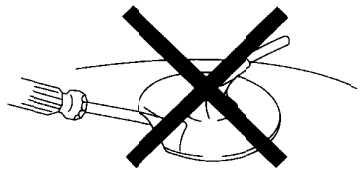


③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ⓒ.

• HOW TO HANDLE AN ANODE-CAP

① Do not damage the surface of anode-cap with sharp shaped objects.
② Do not press the rubber too hard so as not to damage the inside of anode-cap.
A metal fitting called the shatter-hook terminal is built into the rubber.
③ Do not turn the foot of rubber over too hard.
The shatter-hook terminal will stick out or damage the rubber.





SECTION 3
SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

Controls and switch should be set as follows unless otherwise noted:
PICTURE control ..... normal
BRIGHTNESS control ..... normal

Perform the adjustments in the following order:

1. Beam Landing
2. Convergence
3. Focus
4. White Balance

Note : Test Equipment Required:

1. Color-bar/Pattern Generator
2. Degausser
3. Oscilloscope

Preparation :

- In order to reduce the influence of geomagnetism on the set's picture tube, face it east or west.
- Switch on the power and degauss with the degausser.

3-1. BEAM LANDING

1. Input a white signal with the pattern generator.
   Contrast, Brightness } normal
2. Set the pattern generator raster signal to green.
3. Move the deflection yoke to the rear and adjust with the purity control so that the green is at the center and the blue and the red take up equally sized areas on each side.
   (See Figures 3-1 through 3-3.)
4. Move the deflection yoke forward and adjust so that entire screen is green. (See Figure 3-1.)
5. Switch the raster signal to blue, then to red and verify the condition.
6. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
7. If the beam does not land correctly in all the corners, use a magnet to adjust it. (See Figure 3-4.)

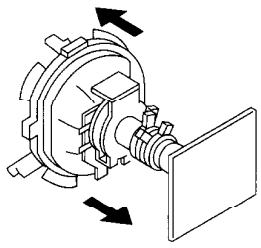


Fig. 3-1

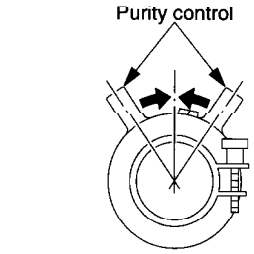


Fig. 3-2

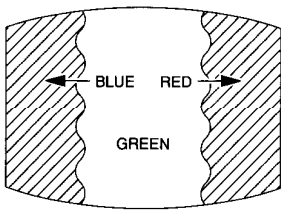


Fig. 3-3

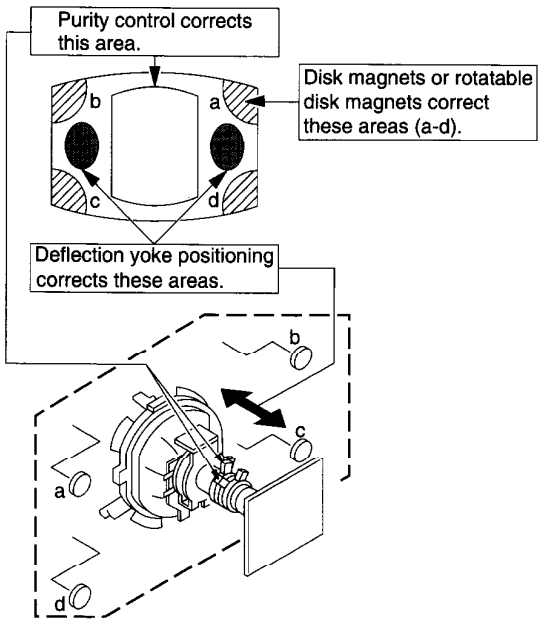


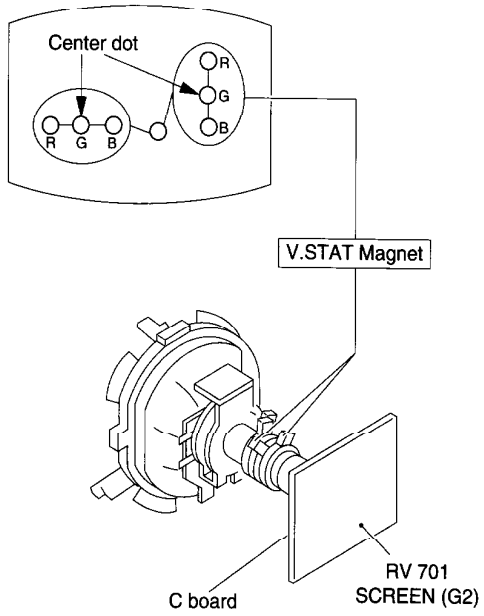
Fig. 3-4

3-2. CONVERGENCE

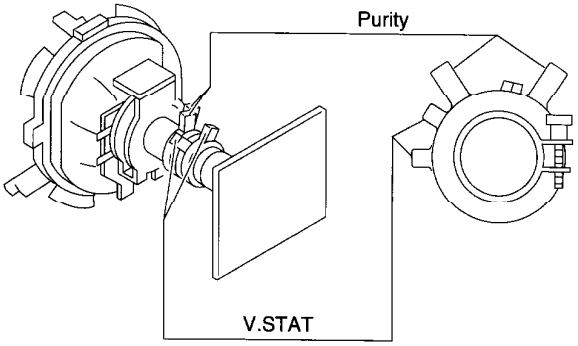
Preparation :

- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.

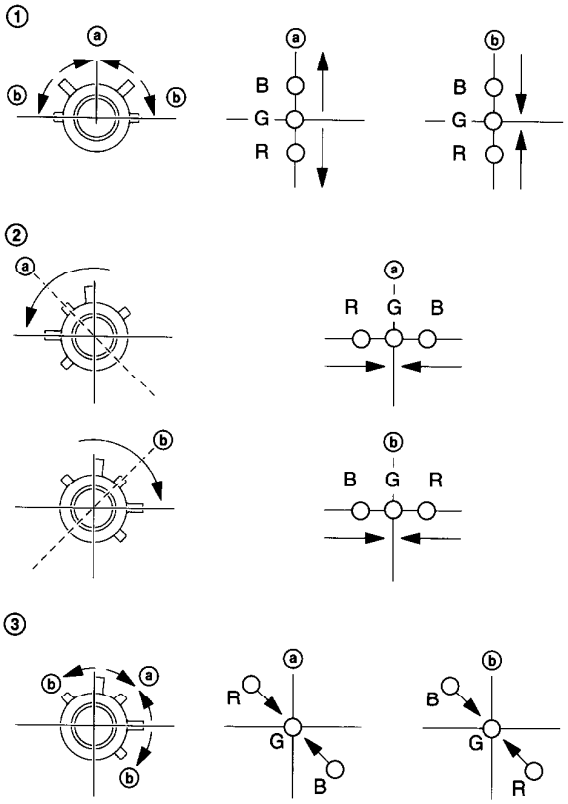
(1) Horizontal and Vertical Static Convergence



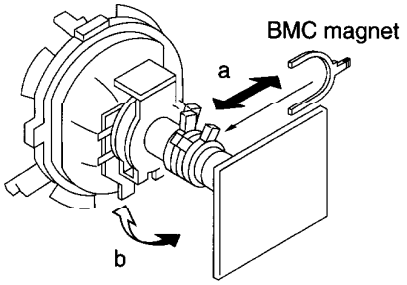
1. (Moving vertically), adjust the V.STAT magnet so that the red, green and blue dots are on top of each other at the center of the screen.
2. (Moving horizontally), adjust the H.STAT VR so that the red, green and blue dots are on top of each other at the center of the screen.



- Operation of V.STAT magnet.
  If the V.STAT magnet is moved in the direction of the ⓐ and ⓑ arrows, the red, green and blue dots move as shown below.



- Operation of BMC (Hexapole) magnet.
  If the blue or red dot does not converge with the other two dots, perform following steps.
  Move BMC magnet (a) to correct insufficient H.static convergence.
  Rotate BMC magnet (b) to correct insufficient V.static convergence.
  In either case, repeat Beam Landing Adjustment.

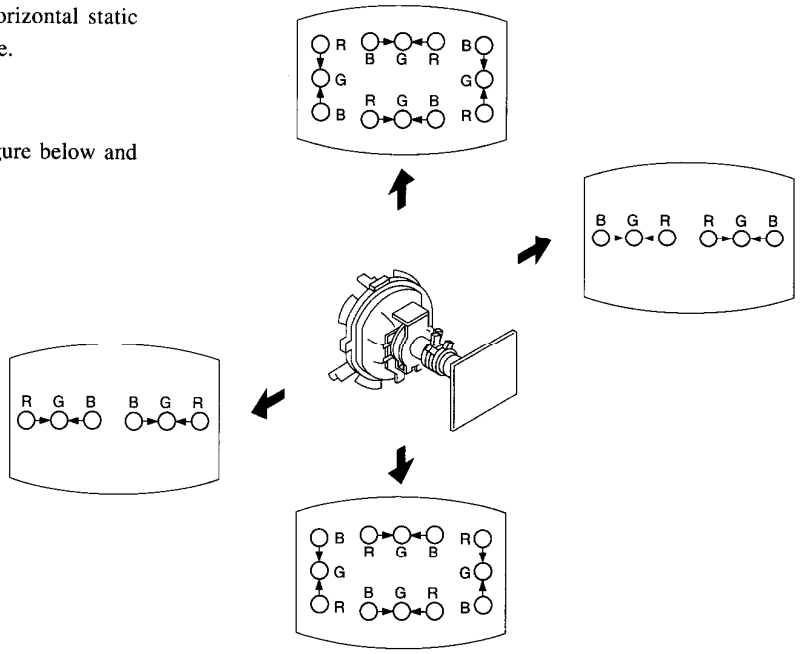


(2) Dynamic Convergence Adjustment

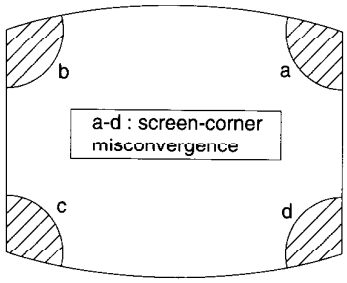
Preparation :

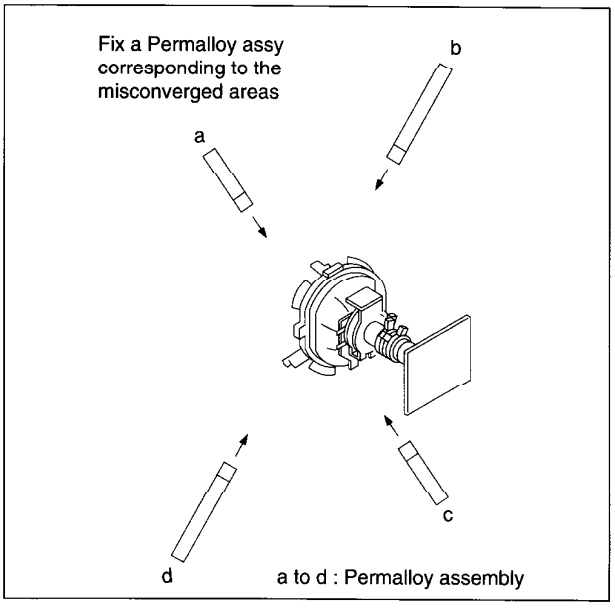
- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.

1. Slightly loosen the deflection yoke screws.
2. Remove the deflection yoke spacer.
3. Move the deflection yoke as shown in the figure below and optimize the convergence.
4. Tighten the deflection yoke screws.
5. Install the deflection yoke spacer.



(3) Screen-corner Convergence





3-3. FOCUS ADJUSTMENT

Adjust FOCUS control on the C board (RV703) for the best focus.

3-4a. AN ITEM OF ADJUSTMENT

Item number	Adjustment Item	Initial DATA	Note
09	RDR	3F	WHITE POINT R
0A	GDR	3F	WHITE POINT G
0B	BDR	3F	WHITE POINT B

b. METHOD OF CANCELLATION FROM SERVICE MODE

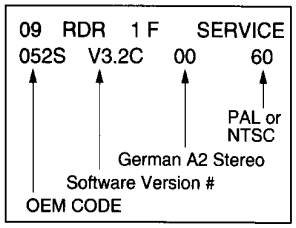
Set the standby condition (Press [POWER] button on the commander) and then press [POWER] button again, hereupon it becomes TV mode.

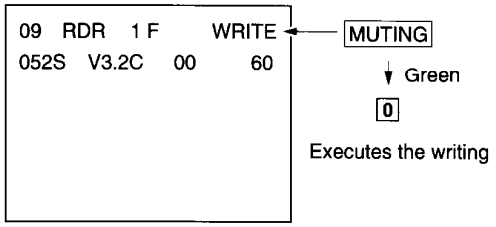
c. METHOD OF WRITE FOR MEMORY

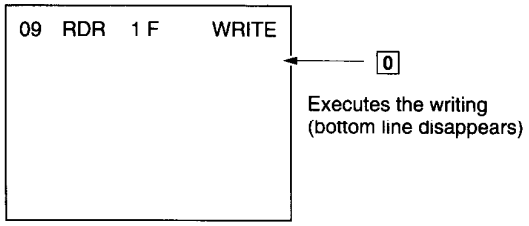
1) Set to Service Mode.
2) Press [1] (UP) and [4] (DOWN) to select an item of adjustments.
3) Press [MUTING] button and it will indicate WRITE on screen.
4) Press [0] button to write into memory.

d. MEMORY WRITE CONFIRMATION METHOD

1) After adjustment, pull out the plug from AC outlet, and then plug into AC outlet again.
2) Turn the power switch ON and set to Service Mode.
3) Call the adjusted items again, confirm they were adjusted.



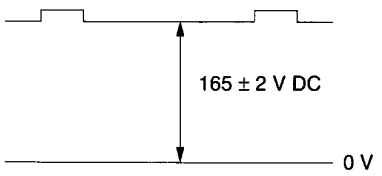




3-5. G2 (SCREEN) AND WHITE BALANCE ADJUSTMENTS

1. G2 (SCREEN) ADJUSTMENT (RV701)

1) Set the PICTURE and BRIGHTNESS to normal.
2) Put to VIDEO input mode without signals.
3) Connect R, G and B of the C board cathode to the oscilloscope.
4) Adjust G2 (RV701) volume to the value below.



2. WHITE BALANCE ADJUSTMENTS

1) Set to Service Mode.
2) Input an entire white signal.
3) Set the PICTURE to maximum.
4) Select RDR(09) with [1] and [4], and then set the level to 25 with [3] and [6].
5) Select GDR(0A) and BDR(0B) with [1] and [4], and adjust the level with [3] and [6] for the best white balance.
6) Write into the memory by pressing [MUTING], then [0].

SECTION 4
SELF DIAGNOSIS FUNCTION

If no acknowledgement is returned from a device which is turned "ON", the device has a problem.
In this case, one of the LED's responding to the problem device will flicker a defined number of times.

Flickering is operated by lighting the LED's for 60ms each time.

The flickering frequency responding to each failed device is shown below.

Board name	A Board	A Board
Ref. No.	IC003	IC300
Device	NONVOLATILE MEMORY (ST24C04FB6)	Y/C JUNGLE (TDA8374A)
Flickering Frequency	1	3

All the devices are checked one after another from the left of the table.
If an error is found, the responding LED will start flickering.
So, if more than 1 device have failed, only the one on the left side will flicker.

SECTION 5
CIRCUIT ADJUSTMENTS

5-1. ADJUSTMENTS WITH COMMANDER

Service adjustments are made with the RM-869 that comes with this unit.

Entering service mode

With the unit on standby

↓

[DISPLAY]

↓

[5]

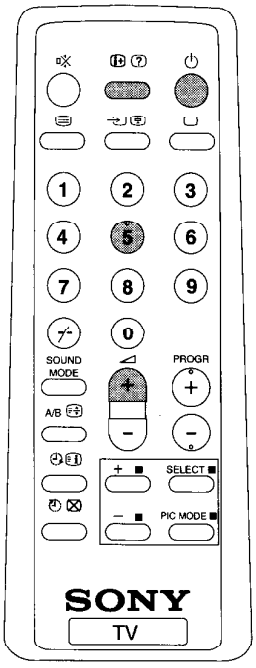
↓

[VOL (+)]

↓

[POWER]

The operation sequence puts the unit into service mode.



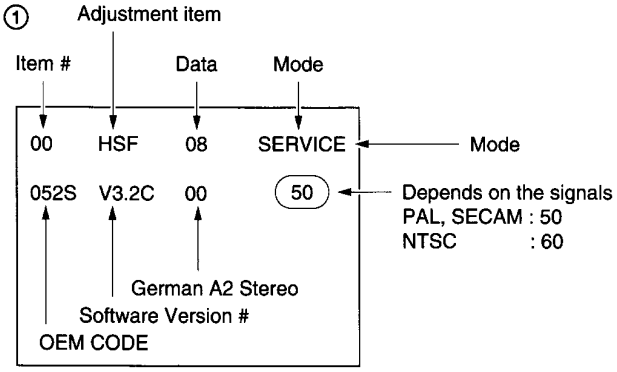
RM-869

[1], [4]	Raise/lower the service item number
[3], [6]	Raise/lower the data
[MUTING]	Writes
[0]	Executes the writing

[7], [0]	All data becomes the values in memory
[8], [0]	All user control goes to the standard state
[5], [0]	Service data initialization (Be sure not to use usually.)
[2], [0]	Write 50Hz adjustment data to 60Hz, or viceversa.

The screen display is :

①



②

3D	OP0	00	SERVICE
0000	0000	00	50

(Bit options adjustable)

[1], [4] Select the adjustment item.

↓

[3], [6] Raise/lower the data.

↓

[MUTING] Writes

↓

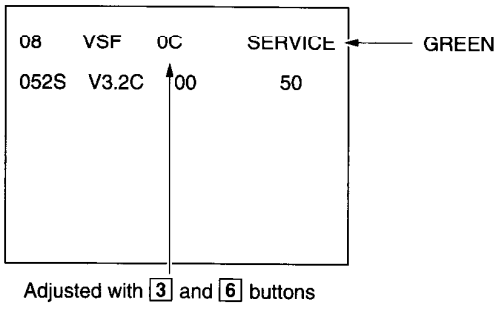
[0] Executes the writing.

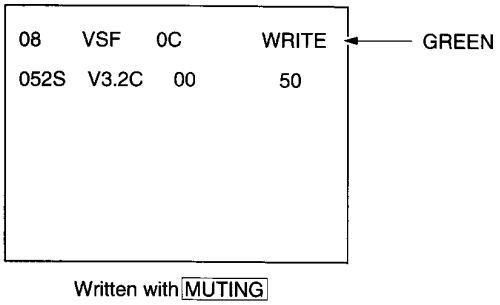
5-2. ADJUSTMENT METHOD

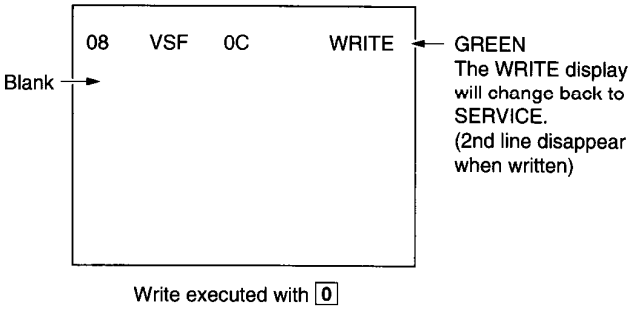
Item Number 08

This explanation uses V-SHIFT as an example.

1. Select 08 V-SHIFT with the [1] and [4] buttons.
2. Raise/lower the data with the [3] and [6] buttons.
3. Select the optimum state. (The standard is 0F for PAL reception.)
4. Write with the [MUTING] button.
5. Execute the writing with the [0] button. (The WRITE display returns to green SERVICE.)







Use the same method for Items Number 00-40. Use [1] and [4] to select the adjustment item, use [3] and [6] to adjust, write with [MUTING], then execute the write with [0].

Adjustment Item Table

Item No.	Adj. Item	Data Range	Initial Data	Note for Different Data			Function	Device
00	HSF	00–3F		50: 2C	60: 33		H Shift	TDA8375
01	HSZ	00–3F		50: 35	60: 35		H Size	TDA8375
02	PAP	00–3F		50: 25	60: 25		Pin Amplitude	TDA8375
03	CNP	00–3F		50: 10	60: 0C		Corner Pin	TDA8375
04	TLT	00–3F		50: 20	60: 2D		Tilt	TDA8375
05	VSL	00–3F		50: 1F	60: 1F		V Slope	TDA8375
06	VAP	00–3F		50: 1C	60: 1B		V Amplitude	TDA8375
07	SCR	00–3F		50: 16	60: 16		S Correction	TDA8375
08	VSF	00–3F		50: 10	60: 10		V Shift	TDA8375
09	RDR	00–3F	28				R Drive	TDA8375
0A	GDR	00–3F	20				G Drive	TDA8375
0B	BDR	00–3F	20				B Drive	TDA8375
0C	FO	00–03		TV: 00	VIDEO: 00	TEXT: 00	ø1 TIME CONSTANT	TDA8375
0D	AGC	00–3F		TV: 28	VIDEO: 28	TEXT: 28	AGC Take Over	TDA8375
0E	VSW	00–01		TV: 00	VIDEO: 01	TEXT: 00	Video Mute Switch	TDA8375
0F	FOR	00–03	03				Forced Field Frequency	TDA8375
10	DL	00–01	00				De-interlace	TDA8375
11	POC	00–01	00				Fixed ø1 Synchro. Mode	TDA8375
12	COR	00–01		TV: 01	VIDEO: 00	TEXT: 00	Noise Coring	TDA8375
13	VPX	00–FF	00				Extra Bits (see below)	TDA8375
14	PMX	00–3F		TV: 2B	VIDEO: 2B	TEXT: 19	Picture Maximum Data	TDA8375
15	PMI	00–3F	04				Picture Maximum Data	TDA8375
16	SBR	00–7F	4B				Sub Brightness	TDA8375
17	SHU	00–0F	09				Sub Hue	TDA8375
18	SSH	00–03		TV: 01	VIDEO: 03		Sub Sharpness	TDA8375
19	SC1	00–3F		50: 26	60: 29		Sub Color Lower	TDA8375
1A	SC2	00–3F		50: 0C	60: 0D		Sub Color Higher	TDA8375
1B	AIP	00–7F	3F				Adjustment IF-PLL	TDA8375
1C	VZM	00–3F	19				Vertical Zoom	TDA8375
1D	WST	00–FF	15				W/G Stereo Threshold	MSP3410D
1E	WBT	00–FF	EB				W/G Bilingual Threshold	MSP3410D
1F	WLL	00–FF	05				W/G Monaural Threshold	MSP3410D
20	ACG	00–01	01				ACG Switch auto/constant	MSP3410D
21	CDB	00–3F	28				ACG Gain at Constant Mode	MSP3410D
22	FGP	00–7F	24				FM Prescale for B/G, I. DK	MSP3410D
23	FMP	00–7F	40				FM Prescale for M	MSP3410D
24	FMH	00–7F	20				FM Prescale for HDEV Mode	MSP3410D
25	WGP	00–7F	3C				W/G Prescale	MSP3410D
26	NIP	00–7F	7F				NICAM Prescale	MSP3410D
27	SCP	00–7F	20				SCART Input Prescale	MSP3410D
28	SCV	00–7F	20				SCART Output Prescale	MSP3410D
29	CRM	00–01	00				Carrier Muting on/off	MSP3410D
2A	ACD	00–01	01				Audio Clock-out on/off	MSP3410D
2B	AWC	00–0F	01				W/G Agreement Count	MSP3410D
2C	NFT	00–FF	50				Auto FM Switch Threshold	MSP3410D
2D	DLG	00–FF	30				W/G Search Delay	MSP3410D
2E	DLN	00–FF	10				NICAM Search Delay	MSP3410D
2F	DLS	00–FF	0A				Stereo Status Read Delay	MSP3410D
30	SMX	00–7F	72				DFP Volume Maximum	MSP3410D
31	ING	00–0F		M: 00	non-M: 00	VIDEO: 00	Input Gain	TDA7438
32	VOM	00–3F	01				Volume Output Gain	TDA7438
33	TXH	00–03	01				Teletext Horizontal Position	SAA5261
34	BKP	00–3F	00				Picture Data at Blanking OFF	Other Control
35	ODL	00–FF	10				Power on Delay	Other Control
36	OFR	00–0F	00				RGB Output Time (STBY OFF)	Other Control

Item No.	Adj. Item	Data Range	Initial Data	Note for Different Data	Function	Device
37	OFM	00–0F	00		RGB Output Time (AC OFF)	Other Control
38	OSH	00–3F	0A		OSD H POSITION	Other Control
39	DSK	00–01	00		D/K Stereo enable/disable	TDA8375
3A	MUT	00–01	00		Muting on/off at No. Sync	Other Control
3B	ABL	00–01	00		Bright ABL Switch	Other Control
3C	SCM	00–01	00		SECAM Trap active/inactive	Other Control
3D	FBT	00–01	01		FBT L/S C/M stract/plain	Other Control
3E	OP0	00–FF	4F		Optional Flags 0 (see below)	Other Control
3F	OP1	00–FF	0F		Optional Flags 1 (see below)	Other Control
40	OP2	00–FF	00		Optional Flags 2 (see below)	Other Control

NOTE

- Note for Different Data — Those are the standard data values written on the microprocessor. Therefore, the data values of the modes are stored respectively in the memory.
  In case of a device replacement, adjustment by rewriting the data value is necessary for some items.
- 50 ..... 50 Hz data
- 60 ..... 60 Hz data
- Note for Different Data listed on the adjustment item table are reference values, therefore it is different for every model.

Option Note

Item No. 13 VPX

Item	HCO	EVG	SBL	PRD	–	–	–	VID
Initial data	0	0	0	0	0	0	0	0

HCO EHT Tracking Mode 1 = on V and E–W. 0 = only on V
EVG Enable Vertical Guard 1 = enable. 0 = disable
SBL Service Blanking 1 = active. 0 = inactive
PRD Over-voltage Protection Detection 1 = enable. 0 = disable
VID Video Ident Mode 1 = not for ø1-loop 0 = for ø1-loop

Item No. 3E OP0

Item	No TOP	AV input		AVMUT	B/G	I	D/K	M
Initial data	0	1	0	0	1	1	1	1

AV Input 0 0 no AV input model 0 1 1 AV input model
1 0 2 AV input model 1 1 2 AV input and RGB input model
No TOP (for teletext model) 1 = only FLOF available. 0 = both FLOF and TOP available
AV MUT 1 = AV multi is always muted if no signal input. 0 = not muted always
Other optional bits are effective if set to 1.

Item No. 3F OP1

Item	No NICAM	–	HDEV	1 V-Curve	XTAL SEL		SECAM	2nd Lang.
Initial data	0	0	0	0	1	1	1	1

XTAL SEL 0 0 only 4.43 XTAL 0 1 only 3.58 XTAL
1 0 (not used) 1 1 both 4.43 and 3.58 XTAL
1 V-Curve (for monaural model)
1 = using common volume curve for every mode and every TV system
0 = another volume curve available for video mode and M system
HDEV 1 = High Deviation Mode switch available. 0 = not available
Other optional bits are effevctive if set to 1.

Item No. 40 OP2

Item	–	–	No. Bal	TV Out	Hotel	VM	D.B.F.B.	Thai Bil.
Initial data	0	0	0	0	0	0	0	0

No Bal. (for AV stereo model) 1 = no balance in analog select items. 0 = balance included
Other optional bits are effective if set to 1.
Hotel TV mode should be switched with remote commander from STBY condition as below.
Hotel TV on : push "display". "8". "vol +" and "power" sequentially
Hotel TV off : push "display". "8". "vol –" and "power" sequentially

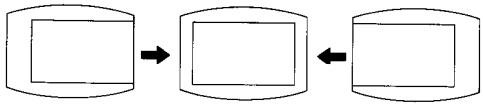
5-3. A BOARD ADJUSTMENT AFTER IC003 (MEMORY) REPLACEMENT

1. Enter to Service Mode.
2. Press commander buttons [5] and [0] (Data Initialize), and [2] and [0] (Data Copy) to initialize the data.
3. Call each item number, and check if the respective screen shows the normal picture.
   In case some items are not well-adjusted, give them fine adjustment.
   Write the data per each item number ([MUTING] + [0]).
4. Select item numbers "3E" (OP0), "3F" (OP1) and "40" (OP2) and respectively set the bit per model with command buttons [3] and [6].
5. Press commander buttons [8] and [0] (Test Normal) to return to the data that was set on the shipment from the factory.
   (= Cancel Service Mode.)

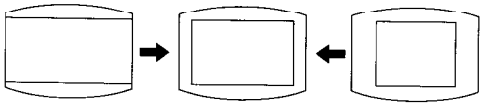
5-4. PICTURE DISTORTION ADJUSTMENT

Item Number 00 – 08

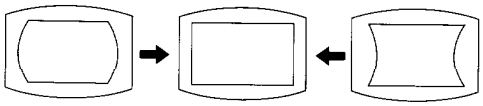
00 HSF (H SHIFT)



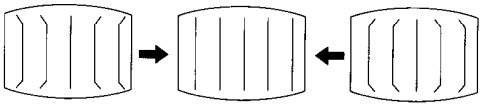
01 HSZ (H SIZE)



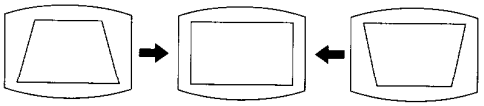
02 PAP (PIN AMPLITUDE)



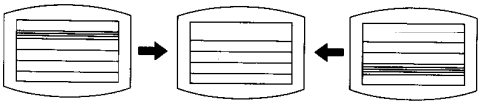
03 CNP (CORNER PIN)



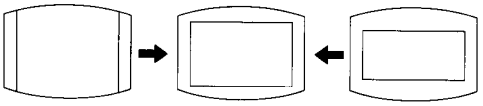
04 TLT (TILT)



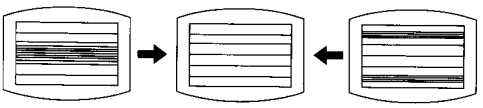
05 VSL (V SLOPE)



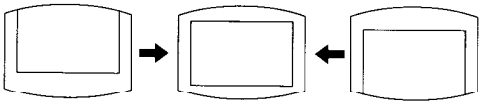
06 VAP (V AMPLITUDE)



07 SCR (S CORRECTION)

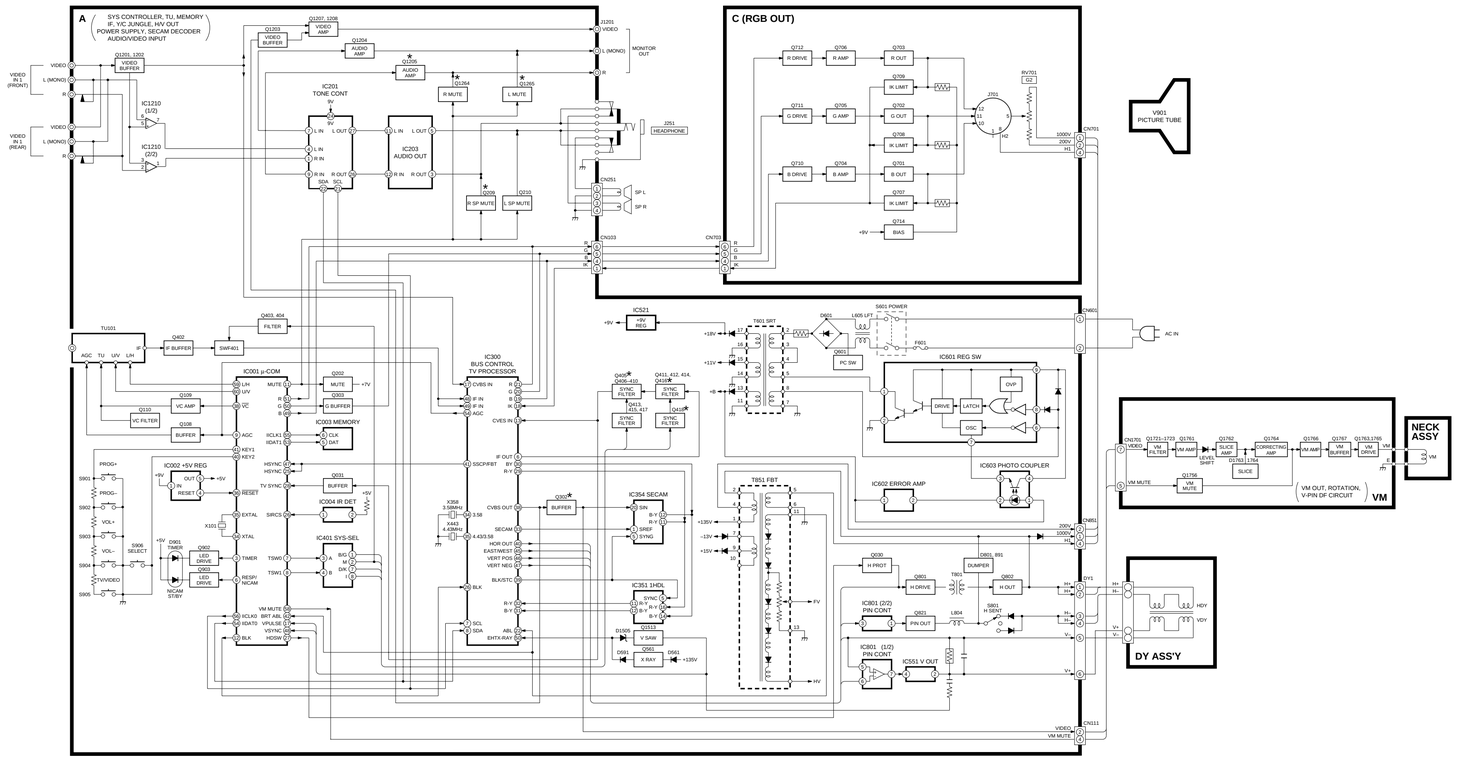


08 VSF (V SHIFT)

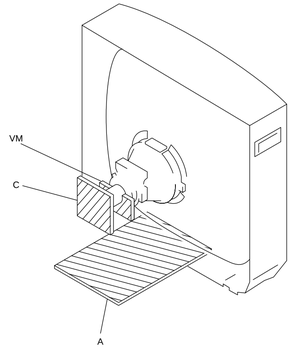


SECTION 6
DIAGRAMS

6-1. BLOCK DIAGRAM



6-2. CIRCUIT BOARDS LOCATION



6-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- All capacitors are in µF unless otherwise noted.
- All electrolytic capacitors are rated at 50V unless otherwise noted.
- All resistors are in ohms.
  kΩ = 1000Ω, MΩ = 1000kΩ
- Indication of resistance, which does not have one for rating electrical power, is as follows.
  Pitch: 5 mm
  Rating electrical power 1/4W (CHIP: 1/10W)
- : nonflammable resistor.
- : internal component.
- : panel designation, or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Readings are taken with a color-bar signal input.
  no mark : PAL
  ( ) : SECAM
  [ ] : NTSC 3.58
  « » : NTSC 4.43
- Readings are taken with a 10 MΩ digital multimeter.
- Voltage are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- : Can not be measured.
- Circled numbers are waveform reference.
- : B + bus.
- : B – bus.
- : signal path.

Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFRAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: *	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

Note: The component identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Terminal name of semiconductors in silk screen printed circuit (*)

	Device	Printed symbol	Terminal name	Circuit
①	Transistor		Collector / Base / Emitter	
②	Transistor		Collector / Base / Emitter	
③	Diode		Cathode / Anode	
④	Diode		Cathode / Anode (NC)	
⑤	Diode		Cathode / Anode (NC)	
⑥	Diode		Common Anode / Cathode	
⑦	Diode		Common Anode / Cathode	
⑧	Diode		Common Anode / Anode	
⑨	Diode		Common Anode / Anode	
⑩	Diode		Common Cathode / Cathode	
⑪	Diode		Common Cathode / Cathode	
⑫	Diode		Anode / Cathode / Anode / Anode / Cathode / Anode	
⑬	Transistor (FET)		Drain / Source / Gate	
⑭	Transistor (FET)		Drain / Source / Gate	
⑮	Transistor (FET)		Source / Drain / Gate	
⑯	Transistor		Emitter / Collector / Base	
⑰	Transistor		C2482/E1 / E2782/C1	
⑱	Transistor		C1815/C2 / E1787/C2	
⑲	Transistor		C1 B2 E2 / E1 B1 C2	
⑳	Transistor		C1 B2 E2 / E1 B1 C2	
㉑	Transistor		E2 B1 E1 / C2 C1B2	
㉒	Transistor		(B1) B1 E1 E2 / C1 C2	
㉓	Transistor		(B1) B1 E1 E2 / C2 C1	
–	Discrete semiconductor			

(Chip semiconductors that are not actually used are included.)

PRINTED WIRING BOARD

A [SYS CONTROLLER, TU, MEMORY, IF, Y/C JUNGLE, H/V OUT, POWER SUPPLY, SECAM DECODER, AUDIO/VIDEO INPUT]

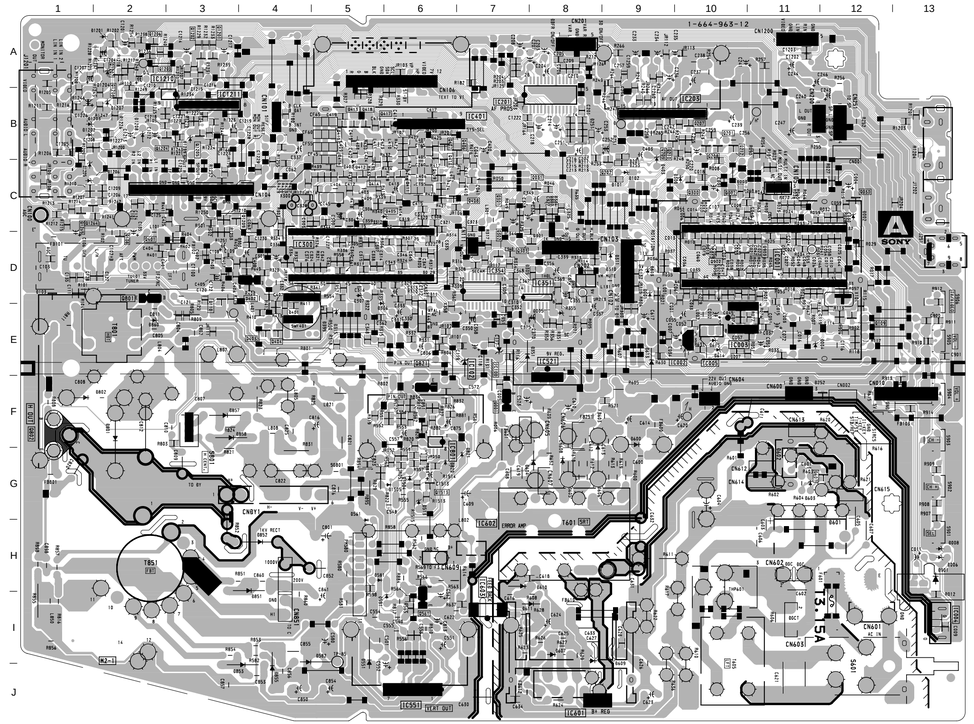
A BOARD

IC	
IC001	D–11
IC002	E–10
IC003	E–10
IC004	I–13
IC100	E–7
IC201	B–8
IC203	B–10
IC300	D–4
IC351	D–8
IC354	D–7
IC401	B–7
IC521	E–8
IC551	J–6
IC601	J–8
IC602	H–7
IC603	H–7
IC801	F–6
IC1210	A–2

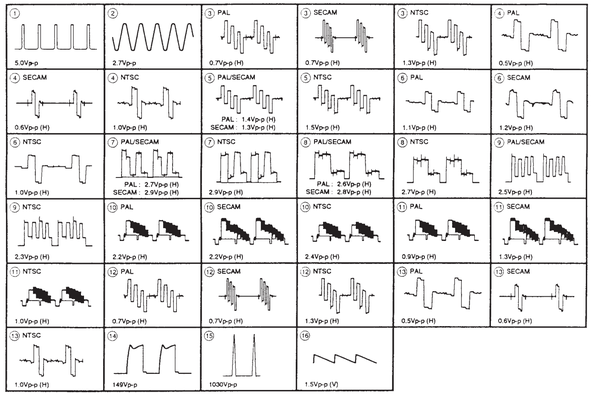
TRANSISTOR	
	*
Q030	C–12 ①
Q108	D–2 ①
Q109	E–12 ①
Q110	E–3 ①
Q202	C–9 ①
Q207	B–10 ①
Q208	B–10 ①
Q209	B–9 ①
Q210	B–10 ①
Q301	C–7 ①
Q302	D–7 ①
Q303	D–8 ①
Q402	D–4 ①
Q403	E–4 ①
Q404	E–4 ①
Q405	C–6 ①
Q406	B–7 ①
Q407	B–6 ①
Q408	C–7 ①
Q409	C–6 ①
Q410	C–6 ①
Q411	C–6 ①
Q412	C–5 ①
Q413	B–5 ①
Q414	C–5 ①
Q415	B–5 ①
Q416	C–5 ①
Q417	B–6 ①
Q418	B–5 ①
Q561	I–6 –
Q801	D–2 –
Q802	F–1 –
Q821	E–6 –
Q902	D–10 ①
Q903	D–11 ①
Q1201	A–3 ①
Q1202	A–3 ①
Q1203	A–2 ①
Q1204	B–2 ①
Q1205	B–3 ①
Q1207	A–2 ①
Q1208	B–2 ①
Q1209	C–4 ①
Q1264	C–1 ①
Q1265	C–1 ①
Q1513	G–6 ①

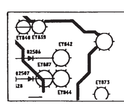
DIODE	
	*
D001	D–9 –
D002	C–12 –
D003	C–10 ⑤
D005	E–8 –
D008	H–13 –
D103	D–1 ⑥
D201	B–9 ③
D251	B–8 ③
D252	F–12 ④
D253	C–9 ③
D301	D–8 ③
D305	D–8 ③
D306	E–6 –
D307	D–5 –
D308	C–10 –
D310	D–9 ③
D311	D–9 –
D312	C–6 –
D315	E–5 –
D351	E–8 –
D399	E–5 ⑤
D401	E–4 ⑤
D402	C–5 –
D403	C–9 –
D513	G–6 –
D551	I–5 –
D561	G–5 –
D591	I–6 –
D601	H–12 –
D604	G–8 –
D605	G–8 –
D606	G–9 –
D607	I–8 –
D609	I–9 –
D610	H–8 –
D611	I–8 –
D613	E–9 –
D801	F–2 –
D802	F–2 –
D851	H–4 –
D852	H–4 –
D853	I–3 –
D855	J–4 –
D857	F–3 –
D858	F–4 –
D860	E–2 –
D901	H–13 –
D1201	A–2 –
D1202	B–1 –
D1203	B–1 –
D1207	B–2 –
D1208	B–2 –
D1209	B–3 –
D1504	G–6 –
D1505	G–6 –

– A BOARD –



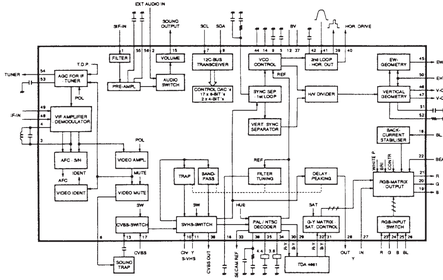
A BOARD WAVEFORMS


① 5.0Vp-p
② 2.7Vp-p
③ PAL 0.7Vp-p (H)
③ SECAM 0.7Vp-p (H)
③ NTSC 1.3Vp-p (H)
④ PAL 0.5Vp-p (H)
④ SECAM 0.6Vp-p (H)
④ NTSC 1.0Vp-p (H)
⑤ PAL/SECAM PAL : 1.4Vp-p (H) SECAM : 1.3Vp-p (H)
⑤ NTSC 1.5Vp-p (H)
⑥ PAL 1.1Vp-p (H)
⑥ SECAM 1.2Vp-p (H)
⑥ NTSC 1.0Vp-p (H)
⑦ PAL/SECAM PAL : 2.7Vp-p (H) SECAM : 2.9Vp-p (H)
⑦ NTSC 2.9Vp-p (H)
⑧ PAL/SECAM PAL : 2.6Vp-p (H) SECAM : 2.6Vp-p (H)
⑧ NTSC 2.7Vp-p (H)
⑨ PAL/SECAM 2.5Vp-p (H)
⑨ NTSC 2.3Vp-p (H)
⑩ PAL 2.2Vp-p (H)
⑩ SECAM 2.2Vp-p (H)
⑩ NTSC 2.4Vp-p (H)
⑪ PAL 0.9Vp-p (H)
⑪ SECAM 1.3Vp-p (H)
⑰ NTSC 1.0Vp-p (H)
⑫ PAL 0.7Vp-p (H)
⑫ SECAM 0.7Vp-p (H)
⑫ NTSC 1.3Vp-p (H)
⑬ PAL 0.5Vp-p (H)
⑬ SECAM 0.6Vp-p (H)
⑬ NTSC 1.0Vp-p (H)
⑭ 140Vp-p
⑮ 1030Vp-p
⑯ 1.5Vp-p (V)

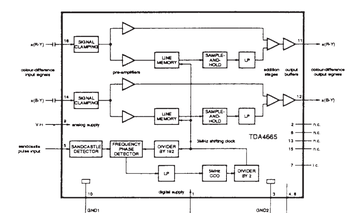


NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Please pay attention while inspecting or reparing it to prevent an electric shock.

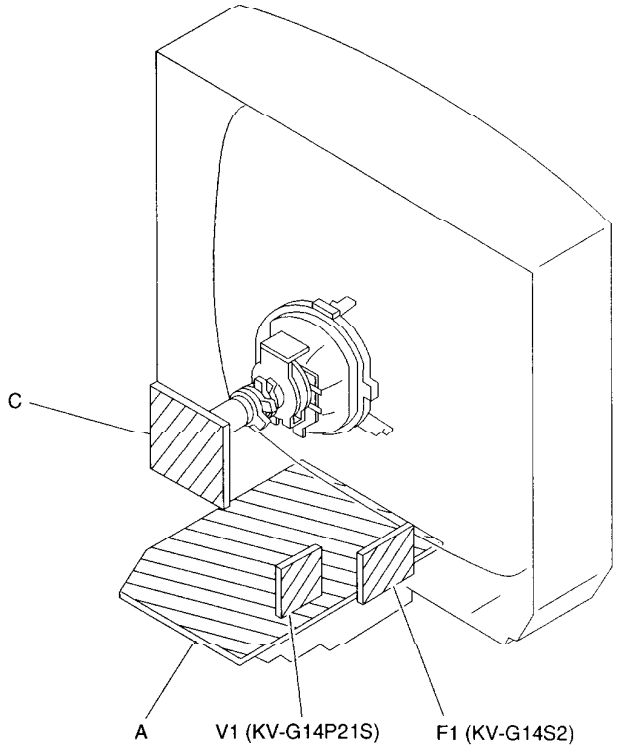
A BOARD IC300 TDA8735A



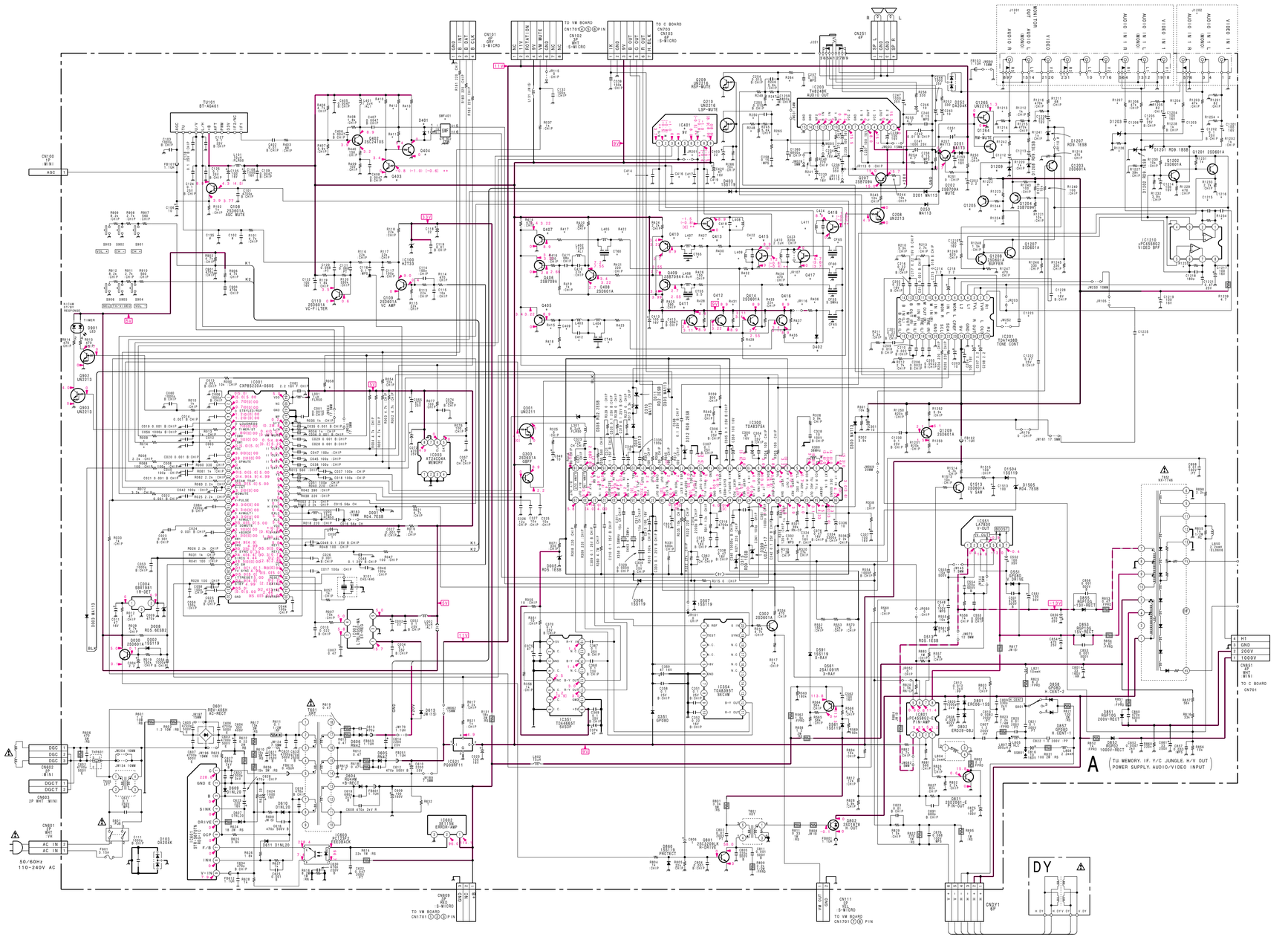
A BOARD IC351 TDA4665T-T



6-2. CIRCUIT BOARDS LOCATION



(1) Schematic Diagram of A Board

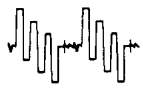
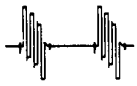
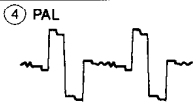
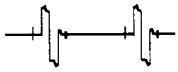
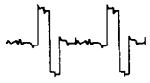
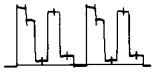
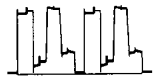
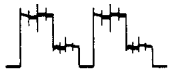
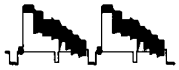
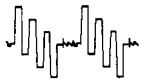
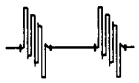
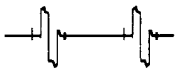
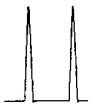
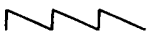


A BOARD * MARK LIST

	KV-2199M5J	KV-J21MF2J		KV-2199M5J	KV-J21MF2J
C003	#	100p 50V : CHIP	Q413	#	UN2216-TX
C012	#	100p 50V : CHIP	Q415	#	UN2216-TX
C409	#	47p 50V CH : CHIP	Q416	#	2SD601A
C412	#	68p 50V CH : CHIP	Q417	#	UN2216-TX
C414	#	100p 50V : CHIP	Q418	#	UN2216-TX
C416	#	100p 50V : CHIP	Q1205	#	2SB709A
C417	#	100p 50V : CHIP	Q1264	#	UN2216-TX
C418	#	390p 50V : CHIP	R009	#	1k : CHIP
C419	#	100p 50V : CHIP	R014	#	1k : CHIP
C422	#	330p 50V CH : CHIP	R058	#	4.7k : CHIP
C424	#	470p 50V CH : CHIP	R247	10k : CHIP	1k : CHIP
C1203	#	0.1 25V B : CHIP	R248	10k : CHIP	1k : CHIP
C1206	#	0.1 25V B : CHIP	R249	15k : CHIP	1k : CHIP
C1212	#	1 50V	R250	15k : CHIP	1k : CHIP
C1215	#	180p 50V B : CHIP	R264	4.7k : CHIP	3.3k : CHIP
C1216	#	0.47 25V B : CHIP	R265	4.7k : CHIP	3.3k : CHIP
C1223	#	1 16V B : CHIP	R410	#	10k : CHIP
C1225	0.47 25V	#	R411	#	2.2k : CHIP
CF45	#	1-527-943-32	R412	#	6.8k : CHIP
CF60	#	1-567-100-22	R413	#	2.2k : CHIP
CF65	#	1-567-101-22	R415	#	220 : CHIP
CT45	#	1-579-690-21	R417	#	220 : CHIP
CT60	#	1-409-429-21	R418	#	680 : CHIP
CT65	#	1-409-327-21	R422	#	120 : CHIP
D401	#	MA77-TX	R423	#	150 : CHIP
D402	#	ISS119-25TD	R427	#	330 : CHIP
D1203	#	RD9.1ES-T1B	R428	#	22k : CHIP
D1209	#	RD9.1ES-T1B	R429	390 : CHIP	180 : CHIP
IC401	#	LA7910	R430	#	470 : CHIP
J1201	4P	6P	R431	#	22k : CHIP
J1202	2P	3P	R432	#	470 : CHIP
JR107	0 : CHIP	#	R435	#	470 : CHIP
JR116	#	0 : CHIP	R436	#	22k : CHIP
JR203	0 :CHIP	#	R437	#	22k : CHIP
JW252	#	7.5MM	R1204	#	47k : CHIP
L403	#	12µH	R1207	#	47k : CHIP
L404	#	8.2µH	R1213	#	1k : CHIP
L405	#	8.2µH	R1214	#	470k : CHIP
L407	#	15µH	R1222	#	1k : CHIP
L408	#	1.8µH	R1223	#	10k : CHIP
L409	#	2.2µH	R1224	#	10k : CHIP
L411	#	2.7µH	R1226	#	39k : CHIP
Q403	#	UN2216-TX	R1234	#	43k : CHIP
Q404	#	UN2216-TX	R1235	39k : CHIP	43k : CHIP
Q405	#	2SB709A	R1242	#	1k : CHIP
Q407	#	2SB709A	R1244	#	100 : CHIP
Q410	#	2SB709A	R1253	1.5k : CHIP	3k : CHIP
Q411	#	2SD601A	SWF401	1-767-663-11	1-760-771-11
Q412	#	2SD601A			

: Not Used

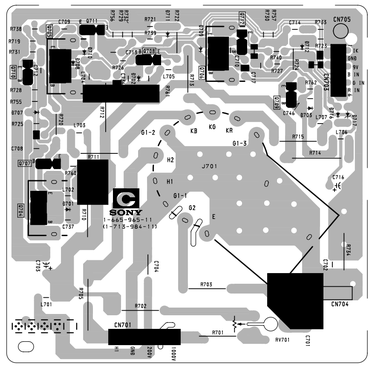
A BOARD WAVEFORMS

① 5.6Vp-p	② 4.3Vp-p	③ PAL  0.8Vp-p (H)	③ SECAM  1.5Vp-p (H)	③ NTSC 1.5Vp-p (H)	④ PAL  0.7Vp-p (H)
④ SECAM  1.1Vp-p (H)	④ NTSC  1.0Vp-p (H)	⑤ PAL/SECAM 1.5Vp-p (H)	⑤ NTSC 2.2Vp-p (H)	⑥ PAL 1.2Vp-p (H)	⑥ SECAM 1.1Vp-p (H)
⑥ NTSC 1.7Vp-p (H)	⑦ PAL/SECAM  PAL : 2.7Vp-p (H) SECAM : 2.5Vp-p (H)	⑦ NTSC  4.4Vp-p (H)	⑧ PAL/SECAM PAL : 2.3Vp-p (H) SECAM : 2.6Vp-p (H)	⑧ NTSC  2.8Vp-p (H)	⑨ PAL/SECAM PAL : 2.6Vp-p (H) SECAM : 2.9Vp-p (H)
⑨ NTSC 3.3Vp-p (H)	⑩ PAL 3.1Vp-p (H)	⑩ SECAM 2.5Vp-p (H)	⑩ NTSC 2.6Vp-p (H)	⑪ PAL 1.1Vp-p (H)	⑪ SECAM  1.1Vp-p (H)
⑪ NTSC 1.3Vp-p (H)	⑫ PAL  0.8Vp-p (H)	⑫ SECAM  1.6Vp-p (H)	⑫ NTSC 1.5Vp-p (H)	⑬ PAL 0.6Vp-p (H)	⑬ SECAM  1.2Vp-p (H)
⑬ NTSC 2.2Vp-p (H)	⑭ 122Vp-p	⑮  800Vp-p	⑯  1.2Vp-p (V)		

PRINTED WIRING BOARD

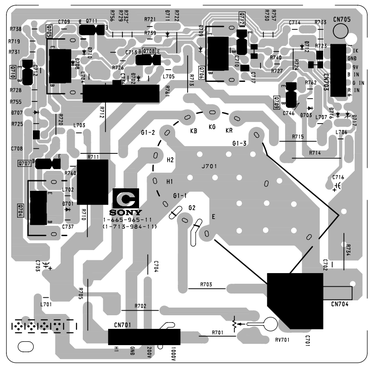
C [RGB OUT]

– C BOARD –

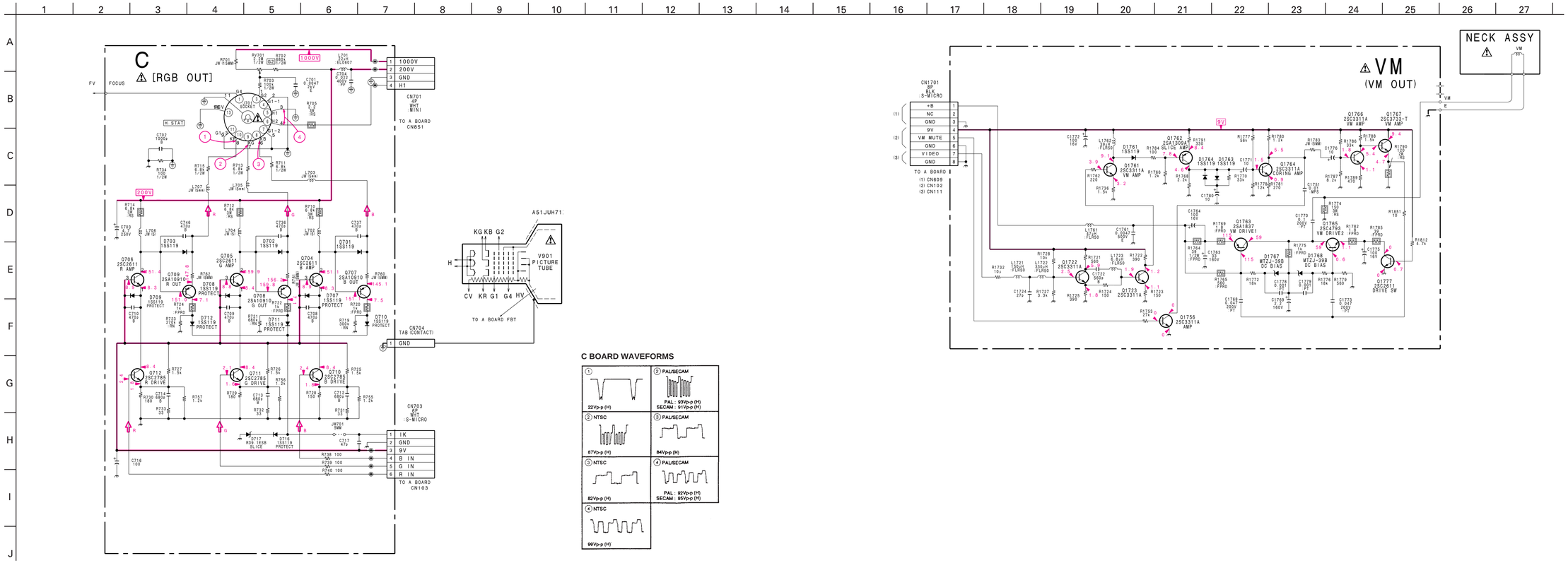


VM [VM OUT]

– VM BOARD –



(2) Schematic Diagrams of C and VM Boards



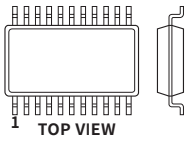
C BOARD WAVEFORMS

① 22Vp-p (H)
② PAL/SECAM PAL : 93Vp-p (H) SECAM : 91Vp-p (H)
② NTSC 87Vp-p (H)
③ PAL/SECAM 84Vp-p (H)
③ NTSC 82Vp-p (H)
④ PAL/SECAM PAL : 92Vp-p (H) SECAM : 95Vp-p (H)
④ NTSC 99Vp-p (H)

6-4. SEMICONDUCTORS

IC

AT24C04A-10PC-B
TDA7438D
μPC4558G2 (8PIN)



Small Outline L-leaded Package
Pin 8 ～ 98

CAT24C04P
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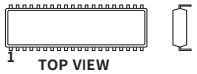
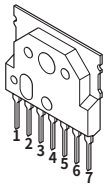
TDA4665T
TDA8375A
TDA8395

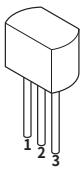


Dual In-line Package
Pin 6 98

LA7830



LA7910 (9PIN)



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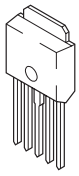
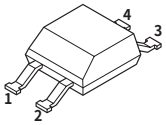


PC123F2



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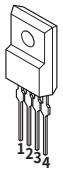
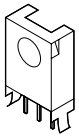
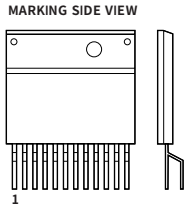


SBX1981-11

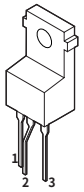


STR-S6707N (9PIN)



Zip-zag In-line Package
Pin6～99

SE115N



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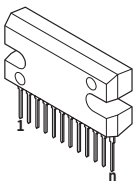

TRANSISTOR

UN2211
UN2213
UN2216
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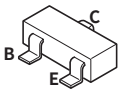
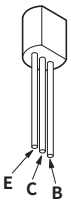
2SD601A-Q



2SA1091-O
2SA1091-R



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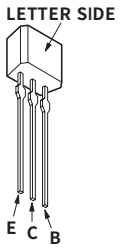
2SC2785-HFE
2SC3311A-QRS-TA



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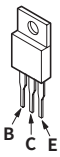

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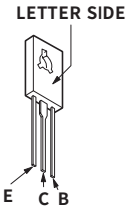

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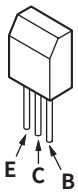

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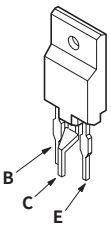

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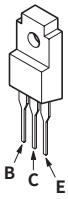
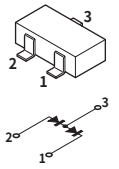


DIODE

DA204K



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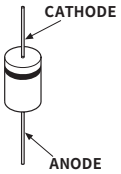
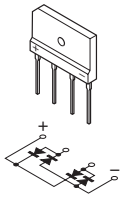
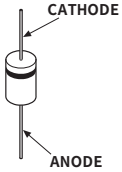
GP08D
RGP02-17EL-6433
RGP10GPKG23



RBV-406H



ERC06-15S
RU4Z



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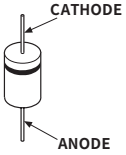

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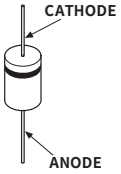
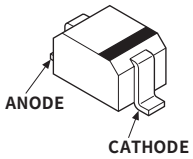
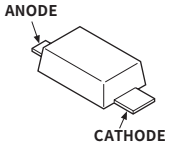


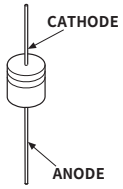
MA113-(TX)
UDZ-TE-17-9.1B



MA77-TX

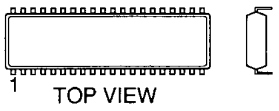


MTZJ-T-77-39B
RD.2.2ES-B1
RD.4.7ES-B1
RD.5.1ES-B1
RD5.6ESB2
RD8.2ES-B2
RD9.1ES-B1
1SS119-25



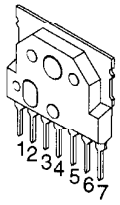
6-4. SEMICONDUCTORS

CAT24C04P (8PIN)
CXP85220A-057S (64PIN)
CXP85220A-059S (64PIN)
ST24C04CB1 (8 PIN)
TDA4665T-T (16PIN)
TDA8374A (56PIN)
TDA8395T (20PIN)



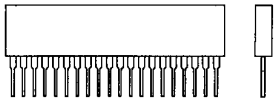
Dual In-line Package
Pin 6~98

LA7830



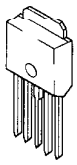
LA7910 (9PIN)

MARKING SIDE VIEW

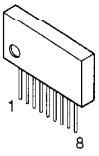


Single In-line Package
Pin 6~99

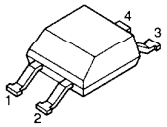
L78LR05D-MA



NJM2234L (8PIN)



PC123F2



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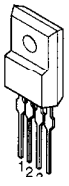

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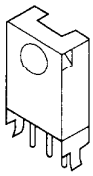
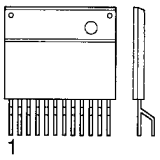


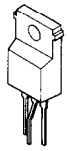
STR-S6707 (9PIN)

MARKING SIDE VIEW



Zig-zag In -line Package
Pin 6~99

SE115N



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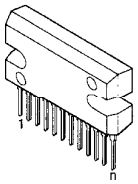
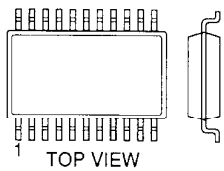
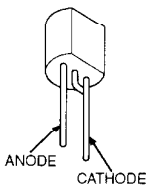


µPC4558G2 (8PIN)



Single In -line Package
Pin 6~98

µPC574J



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DTC114EK
DTC143TKA-T146
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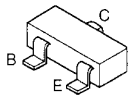
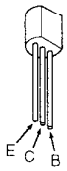
UN2213
UN2216
2SA1162-G
2SC1623-L5L6
2SD601A-Q



2SA1091-O



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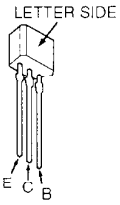

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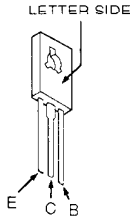

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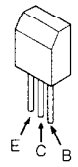
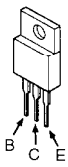
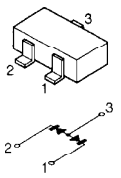


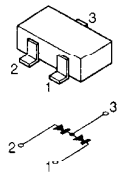
2SD1877S-SONY-CA
2SD2394-EF



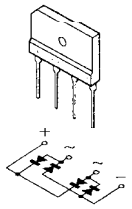
DAP202K



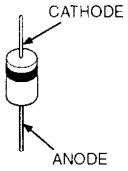
DA204K



DTZ9.1
MA113-(TX)



D1NL20
EL1Z
GP08D
RGP02-17EL-6433



D4SB60L
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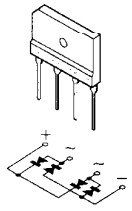
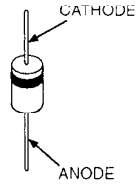
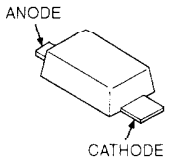


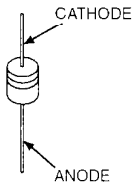
ERC06-15S
S3L20UF4
1SS133T-77



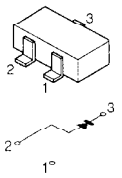
MA77



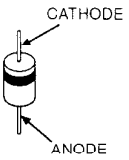
RD2.2ES-B2
RD3.6ES-B1
RD4.7ESB2
RD5.1ES-B1
RD5.6ESB2
RD8.2ES-B2
RD9.1ES-L
1SS119-25



RD3.3M-B2
RD5.6M-B2



RU4DS



SECTION 7
EXPLODED VIEW

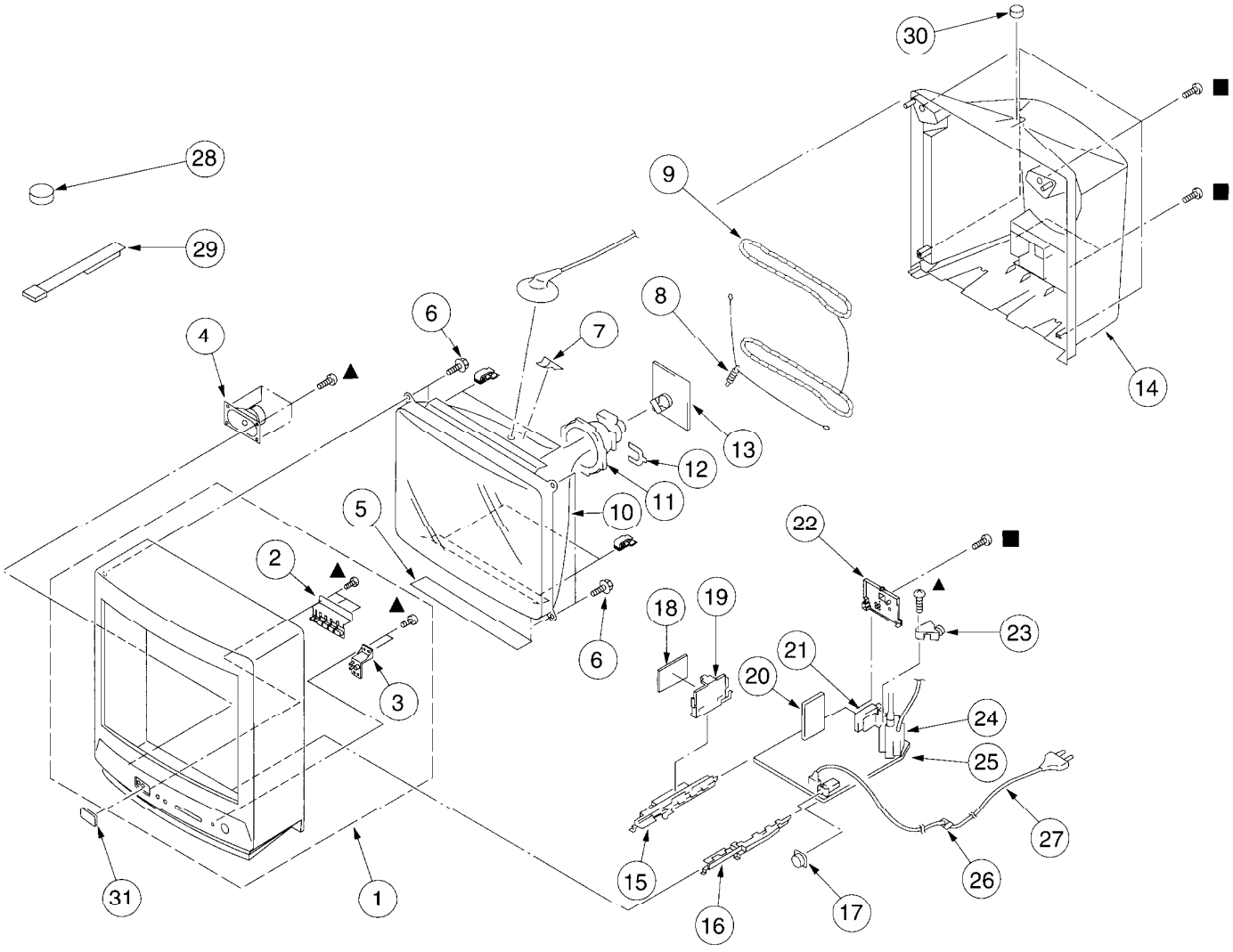
NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

7-1. CHASSIS

■ : BVTP4 × 16 7-685-663-71
▲ : BVTP3 × 12 7-685-648-79



SECTION 7
EXPLODED VIEWS

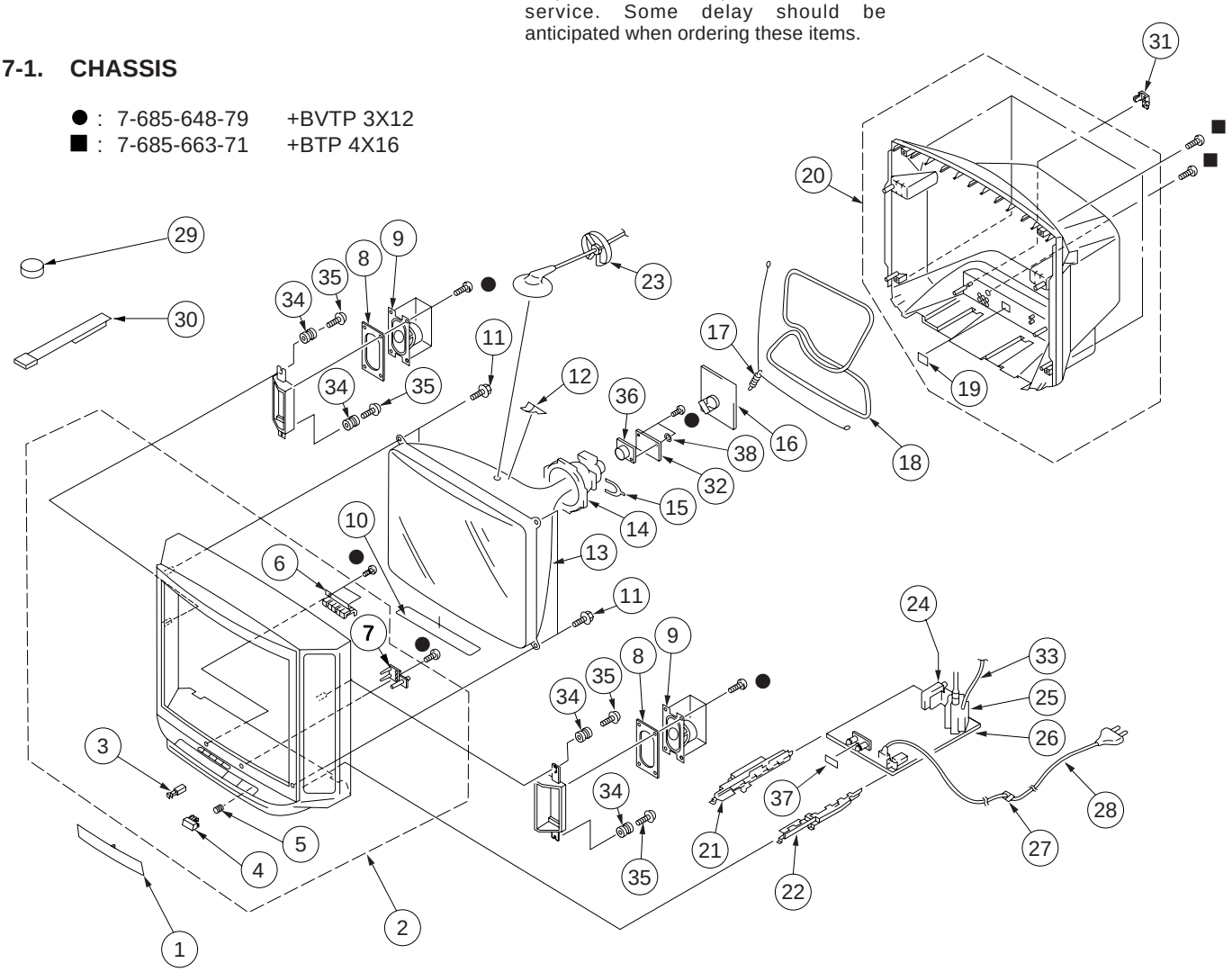
The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

7-1. CHASSIS

● : 7-685-648-79 +BVTP 3X12
■ : 7-685-663-71 +BTP 4X16



REF. NO.	PART NO.	DESCRIPTION	REMARK
1	4-062-935-01	DOOR, CONTROL (J21MF2J)	
	4-062-937-01	DOOR, CONTROL (2199M5J)	
2	X-4035-298-1	BEZNET ASSY (2199M5J)	3-7
	X-4035-381-1	BEZNET ASSY (J21MF2J)	3-7
3	4-047-464-01	CATCHER, PUSH	
4	4-055-546-31	BUTTON, POWER	
5	4-036-405-11	SPRING, COMPRESSION	
6	4-060-144-01	BUTTON, MULTI	
7	* 4-060-143-01	GUIDE, LIGHT	
8	4-052-433-01	CUSHION, SPEAKER	
9	1-503-902-11	SPEAKER (15X6.5 CM)	
10	4-372-556-11	SHEET, BLOTTING	
11	4-057-862-01	SCREW, TAPPING 5+CROWN WASHER	
12	4-046-600-01	SPACER, DY	
13	⚠ 8-738-774-05	PICTURE TUBE 21PXD(SDS) (A51JUH71X)	
14	⚠ 8-451-280-33	DEFLECTION YOKE (Y21PXA2)	
15	1-452-277-00	MAGNET, BMC	
16	* A-1331-748-A	C BOARD, COMPLETE	
17	4-369-318-00	SPRING, TENSION	
18	⚠ 1-409-942-11	COIL, DEMAGNETIZATION	
19	4-049-416-01	SHEET, BLIND	
20	X-4034-787-1	REAR COVER ASSY (J21MF2J)	19

REF. NO.	PART NO.	DESCRIPTION	REMARK
20	X-4035-299-1	COVER ASSY, REAR (2199M5J)	19
21	* 4-055-548-01	GUIDE (L), PWB	
22	* 4-055-549-01	GUIDE (R), PWB	
23	3-704-372-01	HOLDER, HV CABLE	
24	8-598-323-10	TUNER BT-AG401	
25	⚠ 1-453-250-11	TRANSFORMER ASSY, FLYBACK (NX-1746//M3A)	
26	* A-1298-433-A	A BOARD, COMPLETE (2199M5J)	
	* A-1298-434-A	A BOARD, COMPLETE (J21MF2J)	
27	⚠ 4-389-778-01	HOLDER, AC CORD	
28	⚠ 1-574-062-11	CORD, POWER (WITH CONNECTOR) 2.5A/250V	
29	1-452-032-00	MAGNET,DISK ; 10mmø	
30	4-051-736-21	PIECE A(90), CONV. CORRECT	
31	4-049-130-01	CLAMPER, CORD	
32	* A-1342-405-A	VM BOARD, COMPLETE	
33	1-900-212-58	LEAD ASSY, FOCUS	
34	4-374-745-21	CUSHION (A)	
35	4-302-404-03	SCREW (WASHER HEAD) (+P 4X16)	
36	⚠ 1-452-509-51	NECK ASSY, PICTURE TUBE (NA308)	
37	4-063-543-01	SPACER	
38	4-612-010-01	WASHER, FIBER	

SECTION 8
ELECTRICAL PARTS LIST

A

NOTE:

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

- The components identified by ⋈ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

When indicating parts by reference number, please include the board name.

- CAPACITORS
  PF : μμ F
- There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

RESISTORS
- All resistors are in ohms
- F : nonflammable

REF. NO.	PART NO.	DESCRIPTION				REMARK
	* A-1298-433-A	A BOARD, COMPLETE (KV-2199M5J)				
		**********				
	* A-1298-434-A	A BOARD, COMPLETE (KV-J21MF2J)				
		**********				
	* 4-049-131-01	CASE (A), SHIELD				
	4-382-854-11	SCREW (M3X10), P, SW (+)				
		<CAPACITOR>				
C001	1-163-011-11	CERAMIC CHIP	0.0015MF	10%	50V	
C002	1-126-965-11	ELECT	22MF	20%	50V	
C003	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	(J21MF2J)
C004	1-126-961-11	ELECT	2.2MF	20%	50V	
C006	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C007	1-126-959-11	ELECT	0.47MF	20%	50V	
C008	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C009	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	
C010	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V	
C011	1-126-967-11	ELECT	47MF	20%	16V	
C012	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	(J21MF2J)
C013	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C014	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C015	1-101-884-00	CERAMIC	56PF	5%	50V	
C016	1-101-884-00	CERAMIC	56PF	5%	50V	
C017	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C018	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C019	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C020	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C021	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C022	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C023	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C024	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C025	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C026	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C027	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C028	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C029	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C034	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C035	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C036	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C037	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C038	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C040	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C042	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C044	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C045	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C046	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C047	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C048	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C049	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C050	1-126-960-11	ELECT	1MF	20%	50V	
C051	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C052	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C053	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C054	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C055	1-124-480-11	ELECT	470MF	20%	25V	
C056	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C057	1-163-243-11	CERAMIC CHIP	47PF	5%	50V	
C058	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C059	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C060	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C061	1-164-505-11	CERAMIC CHIP	2.2MF		16V	
C064	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C072	1-124-480-11	ELECT	470MF	20%	25V	
C074	1-163-001-11	CERAMIC CHIP	220PF	10%	50V	
C101	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	
C103	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C105	1-104-665-11	ELECT	100MF	20%	16V	
C106	1-126-964-11	ELECT	10MF	20%	50V	
C108	1-126-767-11	ELECT	1000MF	20%	16V	
C109	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	
C111	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C114	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C115	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V	
C116	1-136-165-00	FILM	0.1MF	5%	50V	
C117	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C118	1-126-965-11	ELECT	22MF	20%	50V	
C119	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C120	1-130-493-00	MYLAR	0.068MF	5%	50V	
C121	1-130-493-00	MYLAR	0.068MF	5%	50V	
C122	1-104-665-11	ELECT	100MF	20%	16V	
C124	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C125	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C127	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C128	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C132	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C201	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V	
C202	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V	
C203	1-126-964-11	ELECT	10MF	20%	50V	
C204	1-104-665-11	ELECT	100MF	20%	16V	
C205	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V	
C206	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V	
C207	1-126-961-11	ELECT	2.2MF	20%	50V	
C208	1-126-961-11	ELECT	2.2MF	20%	50V	
C209	1-163-024-00	CERAMIC CHIP	0.018MF	10%	50V	
C210	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V	
C213	1-163-024-00	CERAMIC CHIP	0.018MF	10%	50V	
C214	1-126-961-11	ELECT	2.2MF	20%	50V	
C215	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V	
C216	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V	
C217	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V	
C218	1-126-961-11	ELECT	2.2MF	20%	50V	
C220	1-126-965-11	ELECT	22MF	20%	50V	
C233	1-126-967-11	ELECT	47MF	20%	16V	
C234	1-126-967-11	ELECT	47MF	20%	16V	
C235	1-104-665-11	ELECT	100MF	20%	16V	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

A

REF. NO.	PART NO.	DESCRIPTION			REMARK
C236	1-124-484-11	ELECT	220MF	20%	35V
C237	1-104-665-11	ELECT	100MF	20%	16V
C238	1-136-167-00	FILM	0.15MF	5%	50V
C239	1-104-665-11	ELECT	100MF	20%	16V
C240	1-136-167-00	FILM	0.15MF	5%	50V
C241	1-126-942-61	ELECT	1000MF	20%	25V
C242	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C243	1-126-964-11	ELECT	10MF	20%	50V
C244	1-126-942-61	ELECT	1000MF	20%	25V
C246	1-126-964-11	ELECT	10MF	20%	50V
C247	1-126-942-61	ELECT	1000MF	20%	25V
C252	1-126-961-11	ELECT	2.2MF	20%	50V
C253	1-104-665-11	ELECT	100MF	20%	16V
C254	1-163-023-00	CERAMIC CHIP	0.015MF	10%	50V
C255	1-163-023-00	CERAMIC CHIP	0.015MF	10%	50V
C257	1-136-167-00	FILM	0.15MF	5%	50V
C258	1-136-167-00	FILM	0.15MF	5%	50V
C300	1-126-967-11	ELECT	47MF	20%	16V
C301	1-126-964-11	ELECT	10MF	20%	50V
C304	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C305	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C306	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C307	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C308	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C309	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C310	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C311	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C312	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C313	1-104-665-11	ELECT	100MF	20%	16V
C314	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C315	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V
C316	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C319	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C320	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C321	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C322	1-216-295-91	SHORT	0		
C323	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C324	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C325	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C326	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
C327	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C328	1-164-232-11	CERAMIC CHIP	0.01MF	10%	100V
C329	1-163-016-00	CERAMIC CHIP	0.0039MF	10%	50V
C330	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C331	1-126-964-11	ELECT	10MF	20%	50V
C332	1-136-165-00	FILM	0.1MF	5%	50V
C333	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C334	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V
C335	1-102-973-00	CERAMIC	100PF	5%	50V
C336	1-126-964-11	ELECT	10MF	20%	50V
C337	1-104-665-11	ELECT	100MF	20%	16V
C338	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V
C339	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C340	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C341	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C342	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C344	1-126-964-11	ELECT	10MF	20%	50V
C349	1-126-964-11	ELECT	10MF	20%	50V
C350	1-126-967-11	ELECT	47MF	20%	16V
C351	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C352	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
C358	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C359	1-104-665-11	ELECT	100MF	20%	16V
C361	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C362	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C367	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C368	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C369	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V

REF. NO.	PART NO.	DESCRIPTION			REMARK
C370	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C374	1-124-910-11	ELECT	47MF	20%	50V
C375	1-124-910-11	ELECT	47MF	20%	50V
C376	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V
C402	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C403	1-126-965-11	ELECT	22MF	20%	50V
C405	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C406	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C407	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C408	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C409	1-163-243-11	CERAMIC CHIP	47PF	5%	50V (J21MF2J)
C410	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C411	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C412	1-163-113-00	CERAMIC CHIP	68PF	5%	50V (J21MF2J)
C413	1-104-665-11	ELECT	100MF	20%	16V
C414	1-163-117-00	CERAMIC CHIP	100PF	5%	50V (J21MF2J)
C415	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C416	1-163-117-00	CERAMIC CHIP	100PF	5%	50V (J21MF2J)
C417	1-163-117-00	CERAMIC CHIP	100PF	5%	50V (J21MF2J)
C418	1-163-131-00	CERAMIC CHIP	390PF	5%	50V (J21MF2J)
C419	1-163-117-00	CERAMIC CHIP	100PF	5%	50V (J21MF2J)
C420	1-126-967-11	ELECT	47MF	20%	16V
C422	1-163-263-11	CERAMIC CHIP	330PF	5%	50V (J21MF2J)
C423	1-163-263-11	CERAMIC CHIP	330PF	5%	50V
C424	1-163-133-00	CERAMIC CHIP	470PF	5%	50V (J21MF2J)
C501	1-102-228-00	CERAMIC	470PF	10%	500V
C523	1-104-665-11	ELECT	100MF	20%	16V
C548	1-106-220-00	MYLAR	0.1MF	10%	100V
C551	1-126-968-11	ELECT	100MF	20%	35V
C552	1-126-968-11	ELECT	100MF	20%	35V
C553	1-163-019-00	CERAMIC CHIP	0.0068MF	10%	50V
C554	1-102-244-00	CERAMIC	220PF	10%	500V
C555	1-101-804-00	CERAMIC	10PF	5%	500V
C562	1-104-665-11	ELECT	100MF	20%	16V
C602	1-161-830-00	CERAMIC	0.0047MF		500V
C603	1-161-830-00	CERAMIC	0.0047MF		500V
C604	1-117-752-11	ELECT(BLOCK)	330MF	20%	450V
C605	1-161-830-00	CERAMIC	0.0047MF		500V
C606	1-161-830-00	CERAMIC	0.0047MF		500V
C607	1-161-830-00	CERAMIC	0.0047MF		500V
C608	1-104-332-11	CERAMIC	470PF	10%	2KV
C609	1-124-347-00	ELECT	100MF	20%	160V
C610	1-126-943-11	ELECT	2200MF	20%	25V
C611	⚠ 1-117-697-11	CERAMIC	470PF	10%	250V
C612	1-102-228-00	CERAMIC	470PF	10%	500V
C613	1-102-824-00	CERAMIC	470PF	5%	50V
C614	1-126-943-11	ELECT	2200MF	20%	25V
C616	1-102-228-00	CERAMIC	470PF	10%	500V
C618	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C619	1-162-116-00	CERAMIC	680PF	10%	2KV
C621	⚠ 1-104-705-51	FILM	0.1MF	20%	250V
C622	1-106-383-00	MYLAR	0.047MF	10%	200V
C623	1-126-934-11	ELECT	220MF	20%	16V
C624	1-107-884-11	ELECT	1000MF	20%	16V
C625	1-102-074-00	CERAMIC	0.001MF	10%	50V
C627	1-162-116-00	CERAMIC	680PF	10%	2KV
C628	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C630	⚠ 1-117-697-11	CERAMIC	470PF	10%	250V
C631	1-161-830-00	CERAMIC	0.0047MF		500V
C632	⚠ 1-117-697-11	CERAMIC	470PF	10%	250V
C633	1-161-754-00	CERAMIC	0.001MF	10%	3KV

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REF. NO.	PART NO.	DESCRIPTION			REMARK
C634	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C801	1-123-024-21	ELECT	33MF		160V
C802	1-107-364-11	MYLAR	0.01MF	10%	200V
C804	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C805	1-102-244-00	CERAMIC	220PF	10%	500V
C806	1-126-960-11	ELECT	1MF	20%	50V
C807	1-136-569-11	FILM	1.2MF	5%	200V
C808	1-129-746-00	FILM	0.039MF	5%	400V
C809	1-162-115-00	CERAMIC	330PF	10%	2KV
C810	1-106-365-00	MYLAR	0.0082MF	10%	200V
C811	1-162-318-11	CERAMIC	0.001MF	10%	500V
C812	⚠ 1-117-646-11	FILM	12000PF	3%	1.2KV
C816	1-107-943-11	ELECT	10MF	20%	160V
C820	⚠ 1-161-731-81	CERAMIC	0.001MF	10%	2KV
C821	1-104-999-11	MYLAR	0.1MF	10%	200V
C822	1-136-111-00	FILM	1MF	5%	200V
C823	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C825	1-107-364-11	MYLAR	0.01MF	10%	200V
C850	1-124-480-11	ELECT	470MF	20%	25V
C852	1-104-574-11	CERAMIC	0.0047MF	10%	2KV
C853	1-162-318-11	CERAMIC	0.001MF	10%	500V
C854	1-124-480-11	ELECT	470MF	20%	25V
C856	1-162-318-11	CERAMIC	0.001MF	10%	500V
C857	1-136-159-00	FILM	0.033MF	5%	50V
C860	1-102-228-00	CERAMIC	470PF	10%	500V
C861	1-107-654-11	ELECT	33MF	20%	250V
C875	1-128-562-11	ELECT	47MF	20%	100V
C876	1-107-369-11	MYLAR	0.068MF	10%	100V
C891	1-163-007-11	CERAMIC CHIP	680PF	10%	50V
C898	1-137-150-11	MYLAR	0.01MF	10%	100V
C900	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C901	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C1201	1-104-665-11	ELECT	100MF	20%	16V
C1202	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1203	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V (J21MF2J)
C1204	1-104-665-11	ELECT	100MF	20%	16V
C1205	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1206	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V (J21MF2J)
C1210	1-104-665-11	ELECT	100MF	20%	16V
C1212	1-126-960-11	ELECT	1MF	20%	50V (J21MF2J)
C1213	1-126-960-11	ELECT	1MF	20%	50V
C1214	1-104-665-11	ELECT	100MF	20%	16V
C1215	1-163-257-11	CERAMIC CHIP	180PF	5%	50V (J21MF2J)
C1216	1-164-005-11	CERAMIC CHIP	0.47MF		25V (J21MF2J)
C1217	1-104-665-11	ELECT	100MF	20%	16V
C1218	1-163-257-11	CERAMIC CHIP	180PF	5%	50V
C1219	1-104-665-11	ELECT	100MF	20%	16V
C1221	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C1222	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C1223	1-164-346-11	CERAMIC CHIP	1MF		16V (J21MF2J)
C1225	1-164-005-11	CERAMIC CHIP	0.47MF		25V (2199M5J)
C1226	1-126-934-11	ELECT	220MF	20%	16V
C1228	1-164-346-11	CERAMIC CHIP	1MF		16V
C1230	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1259	1-163-019-00	CERAMIC CHIP	0.0068MF	10%	50V
C1260	1-163-019-00	CERAMIC CHIP	0.0068MF	10%	50V
C1513	1-124-122-11	ELECT	100MF	20%	50V
		<FILTER>			
CF45	1-527-943-00	FILTER, CERAMIC (J21MF2J)			
CF55	1-567-099-00	FILTER, CERAMIC			
CF60	1-567-100-00	FILTER, CERAMIC (J21MF2J)			
CF65	1-567-101-11	FILTER, CERAMIC (J21MF2J)			
		<CONNECTOR>			
CN100	* 1-508-784-00	PIN, CONNECTOR (5mm PITCH) 1P			
CN101	* 1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P			
CN102	* 1-564-506-11	PLUG, CONNECTOR 3P			
CN103	* 1-564-509-11	PLUG, CONNECTOR 6P			
CN111	* 1-564-505-11	PLUG, CONNECTOR 2P			
CN251	* 1-564-507-11	PLUG, CONNECTOR 4P			
CN601	* 1-580-843-11	PIN, CONNECTOR (POWER)			
CN602	* 1-508-786-00	PIN, CONNECTOR (5mm PITCH) 2P			
CN603	* 1-508-786-00	PIN, CONNECTOR (5mm PITCH) 2P			
CN606	1-695-915-11	TAB (CONTACT)			
CN609	* 1-564-506-11	PLUG, CONNECTOR 3P			
CN612	1-695-915-11	TAB (CONTACT)			
CN613	1-695-915-11	TAB (CONTACT)			
CN614	1-695-915-11	TAB (CONTACT)			
CN615	1-695-915-11	TAB (CONTACT)			
CN851	* 1-508-766-00	PIN, CONNECTOR (5mm PITCH) 4P			
		<TRIMMER>			
CT45	1-579-690-11	TRAP, CERAMIC (J21MF2J)			
CT55	1-404-801-11	TRAP, CERAMIC			
CT60	1-409-429-11	TRAP, CERAMIC (J21MF2J)			
CT65	1-409-327-00	TRAP, CERAMIC (6.5MHZ) (J21MF2J)			
		<DIODE>			
D001	8-719-109-81	DIODE RD4.7ESB2			
D002	8-719-911-19	DIODE 1SS119-25			
D003	8-719-041-97	DIODE MA113-(TX)			
D005	8-719-109-84	DIODE RD5.1ESB1			
D008	8-719-109-89	DIODE RD5.6ESB2			
D103	8-719-914-42	DIODE DA204K			
D201	8-719-041-97	DIODE MA113-(TX)			
D251	8-719-041-97	DIODE MA113-(TX)			
D252	8-719-914-42	DIODE DA204K			
D253	8-719-041-97	DIODE MA113-(TX)			
D300	8-719-041-97	DIODE MA113-(TX)			
D301	8-719-041-97	DIODE MA113-(TX)			
D305	8-719-041-97	DIODE MA113-(TX)			
D306	8-719-911-19	DIODE 1SS119-25			
D307	8-719-911-19	DIODE 1SS119-25			
D308	8-719-109-54	DIODE RD2.2ESB2			
D310	8-719-041-97	DIODE MA113-(TX)			
D311	8-719-109-54	DIODE RD2.2ESB2			
D312	8-719-110-08	DIODE RD8.2ESB2			
D315	8-719-121-24	DIODE RD9.1ESL			
D351	8-719-908-03	DIODE GP08D			
D399	8-719-977-22	DIODE DTZ9.1			
D401	8-719-421-40	DIODE MA77 (J21MF2J)			
D402	8-719-911-19	DIODE 1SS119-25 (J21MF2J)			
D403	8-719-911-19	DIODE 1SS119-25			
D513	8-719-109-84	DIODE RD5.1ESB1			
D551	8-719-908-03	DIODE GP08D			
D561	8-719-911-19	DIODE 1SS119-25			
D591	8-719-911-19	DIODE 1SS119-25			
D601	8-719-510-53	DIODE D4SB60L			
D604	8-719-312-10	DIODE RU4AM-T3			
D605	8-719-067-18	DIODE RN4Z			
D606	8-719-067-18	DIODE RN4Z			
D607	8-719-510-26	DIODE D1NL20-TA2			
D609	8-719-510-26	DIODE D1NL20-TA2			
D610	8-719-510-26	DIODE D1NL20-TA2			
D611	8-719-510-26	DIODE D1NL20-TA2			
D801	8-719-945-80	DIODE ERC06-15S			
D802	8-719-900-26	DIODE ERD29-08J			

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REF. NO.	PART NO.	DESCRIPTION	REMARK
D851	8-719-302-43	DIODE EL1Z	
D852	8-719-028-72	DIODE RGP02-17EL-6433	
D853	8-719-302-43	DIODE EL1Z	
D855	8-719-302-43	DIODE EL1Z	
D857	8-719-908-03	DIODE GP08D	
D858	8-719-908-03	DIODE GP08D	
D860	8-719-911-19	DIODE 1SS119-25	
D901	1-810-039-11	LED UNIT	
D1201	8-719-121-24	DIODE RD9.1ESL	
D1202	8-719-121-24	DIODE RD9.1ESL	
D1203	8-719-121-24	DIODE RD9.1ESL (J21MF2J)	
D1207	8-719-121-24	DIODE RD9.1ESL	
D1208	8-719-110-14	DIODE RD9.1ESB3	
D1209	8-719-121-24	DIODE RD9.1ESL (J21MF2J)	
D1504	8-719-911-19	DIODE 1SS119-25	
D1505	8-719-109-81	DIODE RD4.7ESB2	
		<FUSE>	
F601	⚠ 1-532-237-00	FUSE, TIME-LAG (BET) 3.15A/250V	
	1-533-223-11	CLIP, FUSE ; F601	
		<FERRITE BEAD>	
FB101	1-410-397-21	INDUCTOR 1.1UH	
FB102	1-410-397-21	INDUCTOR 1.1UH	
FB103	1-410-397-21	INDUCTOR 1.1UH	
FB251	1-410-397-21	INDUCTOR 1.1UH	
FB601	1-410-397-21	INDUCTOR 1.1UH	
FB603	1-410-397-21	INDUCTOR 1.1UH	
FB610	⚠ 1-410-396-41	INDUCTOR 0.45UH	
FB612	1-410-397-21	INDUCTOR 1.1UH	
FB801	1-410-397-21	INDUCTOR 1.1UH	
		<IC>	
IC001	8-752-891-61	IC CXP85220A-060S	
IC002	8-759-805-37	IC L78LR05D-MA	
IC003	8-759-370-33	IC ST24C04FB6	
IC004	8-742-041-12	HYB IC SBX1981-11	
IC100	8-759-157-40	IC uPC574J	
IC201	8-759-476-86	IC TDA7438D	
IC203	8-759-339-60	IC TA8248K	
IC300	8-759-365-26	IC TDA8375A	
IC351	8-759-288-85	IC TDA4665T-T	
IC354	8-759-251-56	IC TDA8395T	
IC401	8-759-800-65	IC LA7910 (J21MF2J)	
IC521	8-759-054-12	IC PQ09RA1	
IC551	8-759-801-98	IC LA7830	
IC601	8-749-014-00	IC STR-S6707N	
IC602	8-749-921-89	IC SE115N	
IC603	⚠ 8-749-010-64	PHOTO COUPLER PC123F2	
IC801	8-759-100-96	IC uPC4558G2	
IC1210	8-759-100-96	IC uPC4558G2	
		<JACK>	
J251	1-770-786-11	JACK	
J1201	1-770-660-11	JACK BLOCK, PIN 4P (2199M5J)	
J1201	1-779-850-11	JACK BLOCK, PIN 6P (J21MF2J)	
J1202	1-770-329-11	JACK, PIN 3P (J21MF2J)	
J1202	1-779-205-11	JACK, PIN 2P (2199M5J)	
		<CHIP CONDUCTOR>	
JR050	1-216-295-91	SHORT 0	
JR052	1-216-295-91	SHORT 0	
JR101	1-216-295-91	SHORT 0	
JR107	1-216-295-91	SHORT 0 (2199M5J)	
JR112	8-719-041-97	DIODE MA113-(TX)	
JR113	1-216-295-91	SHORT 0	
JR115	1-216-295-91	SHORT 0	
JR116	1-216-295-91	SHORT 0 (J21MF2J)	
JR117	1-216-295-91	SHORT 0	
JR118	1-216-295-91	SHORT 0	
JR125	1-216-295-91	SHORT 0	
JR126	1-216-295-91	SHORT 0	
JR179	1-216-295-91	SHORT 0	
JR203	1-216-295-91	SHORT 0 (2199M5J)	
JR204	1-216-295-91	SHORT 0	
		<COIL>	
L001	1-408-397-00	INDUCTOR 1UH	
L002	1-410-509-11	INDUCTOR 10UH	
L003	1-408-605-31	INDUCTOR 15UH	
L101	1-410-470-11	INDUCTOR 10UH	
L301	1-408-408-00	INDUCTOR 8.2UH	
L401	1-410-498-11	INDUCTOR 1.2UH	
L402	1-410-510-11	INDUCTOR 12UH	
L403	1-410-510-11	INDUCTOR 12UH (J21MF2J)	
L404	1-410-508-11	INDUCTOR 8.2UH (J21MF2J)	
L405	1-410-508-11	INDUCTOR 8.2UH (J21MF2J)	
L406	1-410-507-11	INDUCTOR 6.8UH	
L407	1-410-511-11	INDUCTOR 15UH (J21MF2J)	
L408	1-410-500-11	INDUCTOR 1.8UH (J21MF2J)	
L409	1-410-501-11	INDUCTOR 2.2UH (J21MF2J)	
L410	1-410-501-11	INDUCTOR 2.2UH	
L411	1-410-502-11	INDUCTOR 2.7UH (J21MF2J)	
L802	1-412-527-11	INDUCTOR 15UH	
L804	1-459-075-11	COIL,DYNAMIC CONVERSION CHOKE	
L805	⚠ 1-459-769-13	COIL, HORIZONTAL LINEARITY	
L807	1-459-390-00	COIL (WITH CORE)	
L808	1-412-552-11	INDUCTOR 2.2mH	
L821	1-459-111-00	COIL, DRAM CORE (CDI)	
L850	1-408-947-00	INDUCTOR 2.2mH	
		<TRANSISTOR>	
Q030	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q108	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q109	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q110	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q202	8-729-216-22	TRANSISTOR 2SA1162-G	
Q207	8-729-216-22	TRANSISTOR 2SA1162-G	
Q208	8-729-421-19	TRANSISTOR UN2213	
Q209	8-729-424-67	TRANSISTOR UN2216	
Q210	8-729-424-67	TRANSISTOR UN2216	
Q301	8-729-421-22	TRANSISTOR UN2211	
Q302	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q303	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q402	8-729-922-66	TRANSISTOR 2SC2410SN	
Q403	8-729-424-67	TRANSISTOR UN2216 (J21MF2J)	
Q404	8-729-424-67	TRANSISTOR UN2216 (J21MF2J)	
Q405	8-729-216-22	TRANSISTOR 2SA1162-G (J21MF2J)	
Q406	8-729-216-22	TRANSISTOR 2SA1162-G	
Q407	8-729-216-22	TRANSISTOR 2SA1162-G (J21MF2J)	
Q408	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q409	8-729-216-22	TRANSISTOR 2SA1162-G	
Q410	8-729-216-22	TRANSISTOR 2SA1162-G (J21MF2J)	
Q411	8-729-422-27	TRANSISTOR 2SD601A-Q (J21MF2J)	
Q412	8-729-422-27	TRANSISTOR 2SD601A-Q (J21MF2J)	
Q413	8-729-424-67	TRANSISTOR UN2216 (J21MF2J)	
Q414	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q415	8-729-424-67	TRANSISTOR UN2216 (J21MF2J)	
Q416	8-729-422-27	TRANSISTOR 2SD601A-Q (J21MF2J)	
Q417	8-729-424-67	TRANSISTOR UN2216 (J21MF2J)	
Q418	8-729-424-67	TRANSISTOR UN2216 (J21MF2J)	
Q561	8-729-200-17	TRANSISTOR 2SA1091-O	

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REF. NO.	PART NO.	DESCRIPTION	REMARK
Q801	8-729-140-50	TRANSISTOR 2SC3209LK	
Q802	8-729-821-87	TRANSISTOR 2SD1878-CA	
Q821	8-729-209-15	TRANSISTOR 2SD2012	
Q902	8-729-421-19	TRANSISTOR UN2213	
Q903	8-729-421-19	TRANSISTOR UN2213	
Q1201	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1202	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1203	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1204	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1205	8-729-216-22	TRANSISTOR 2SA1162-G (J21MF2J)	
Q1207	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1208	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1209	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1264	8-729-424-67	TRANSISTOR UN2216 (J21MF2J)	
Q1265	8-729-424-67	TRANSISTOR UN2216	
Q1513	8-729-422-27	TRANSISTOR 2SD601A-Q	
		<RESISTOR>	
R001	1-216-065-00	RES, CHIP 4.7K	
R002	1-216-065-00	RES, CHIP 4.7K	
R003	1-216-065-00	RES, CHIP 4.7K	
R004	1-216-065-00	RES, CHIP 4.7K	
R007	1-216-073-00	RES, CHIP 10K	
R008	1-216-057-00	RES, CHIP 2.2K	
R009	1-216-049-91	RES, CHIP 1.0K (J21MF2J)	
R010	1-216-049-91	RES, CHIP 1.0K	
R012	1-216-017-91	RES, CHIP 47	
R013	1-216-049-91	RES, CHIP 1.0K	
R014	1-216-049-91	RES, CHIP 1.0K (J21MF2J)	
R015	1-216-043-91	RES, CHIP 560	
R016	1-216-049-91	RES, CHIP 1.0K	
R017	1-216-057-00	RES, CHIP 2.2K	
R018	1-216-033-00	RES, CHIP 220	
R019	1-216-101-00	RES, CHIP 150K	
R021	1-216-065-00	RES, CHIP 4.7K	
R025	1-216-057-00	RES, CHIP 2.2K	
R026	1-216-057-00	RES, CHIP 2.2K	
R028	1-216-025-91	RES, CHIP 100	
R029	1-216-065-00	RES, CHIP 4.7K	
R031	1-216-049-91	RES, CHIP 1.0K	
R033	1-216-049-91	RES, CHIP 1.0K	
R035	1-216-049-91	RES, CHIP 1.0K	
R036	1-216-049-91	RES, CHIP 1.0K	
R037	1-216-049-91	RES, CHIP 1.0K	
R038	1-216-033-00	RES, CHIP 220	
R040	1-216-033-00	RES, CHIP 220	
R041	1-216-025-91	RES, CHIP 100	
R042	1-216-039-00	RES, CHIP 390	
R045	1-216-057-00	RES, CHIP 2.2K	
R047	1-216-025-91	RES, CHIP 100	
R048	1-216-025-91	RES, CHIP 100	
R053	1-216-057-00	RES, CHIP 2.2K	
R054	1-216-073-00	RES, CHIP 10K	
R057	1-216-049-91	RES, CHIP 1.0K	
R058	1-216-065-00	RES, CHIP 4.7K (J21MF2J)	
R060	1-216-037-00	RES, CHIP 330	
R061	1-216-049-91	RES, CHIP 1.0K	
R062	1-216-057-00	RES, CHIP 2.2K	
R063	1-216-057-00	RES, CHIP 2.2K	
R068	1-216-025-91	RES, CHIP 100	
R071	1-216-037-00	RES, CHIP 330	
R072	1-216-061-00	RES, CHIP 3.3K	
R076	1-216-025-91	RES, CHIP 100	
R077	1-216-025-91	RES, CHIP 100	
R090	1-216-073-00	RES, CHIP 10K	
R101	1-216-065-00	RES, CHIP 4.7K	
R102	1-216-049-91	RES, CHIP 1.0K	
R113	1-216-081-00	RES, CHIP 22K	

REF. NO.	PART NO.	DESCRIPTION				REMARK
R114	1-216-041-00	RES, CHIP 470				
R115	1-216-081-00	RES, CHIP 22K				
R116	1-216-081-00	RES, CHIP 22K				
R117	1-216-081-00	RES, CHIP 22K				
R118	1-216-081-00	RES, CHIP 22K				
R119	1-216-055-00	RES, CHIP 1.8K				
R120	1-216-109-00	RES, CHIP 330K				
R131	1-216-464-11	METAL OXIDE	18K	5%	2W	F
R180	1-216-033-00	RES, CHIP 220				
R181	1-216-033-00	RES, CHIP 220				
R182	1-216-033-00	RES, CHIP 220				
R203	1-216-033-00	RES, CHIP 220				
R204	1-216-033-00	RES, CHIP 220				
R210	1-216-061-00	RES, CHIP 3.3K				
R211	1-216-061-00	RES, CHIP 3.3K				
R212	1-216-059-00	RES, CHIP 2.7K				
R213	1-216-059-00	RES, CHIP 2.7K				
R240	1-216-035-00	RES, CHIP 270				
R242	1-216-035-00	RES, CHIP 270				
R243	1-216-073-00	RES, CHIP 10K				
R244	1-216-073-00	RES, CHIP 10K				
R245	1-216-067-00	RES, CHIP 5.6K				
R246	1-216-067-00	RES, CHIP 5.6K				
R247	1-216-049-91	RES, CHIP 1.0K (J21MF2J)				
R247	1-216-073-00	RES, CHIP 10K (2199M5J)				
R248	1-216-049-91	RES, CHIP 1.0K (J21MF2J)				
R248	1-216-073-00	RES, CHIP 10K (2199M5J)				
R249	1-216-049-91	RES, CHIP 1.0K (J21MF2J)				
R249	1-216-077-00	RES, CHIP 15K (2199M5J)				
R250	1-216-049-91	RES, CHIP 1.0K (J21MF2J)				
R250	1-216-077-00	RES, CHIP 15K (2199M5J)				
R251	1-216-295-91	SHORT	0			
R252	1-249-411-11	CARBON	330	5%	1/4W	
R253	1-216-073-00	RES, CHIP 10K				
R254	1-249-389-11	CARBON	4.7	5%	1/4W	
R255	1-249-389-11	CARBON	4.7	5%	1/4W	
R256	1-249-411-11	CARBON	330	5%	1/4W	
R257	8-719-041-97	DIODE MA113-(TX)				
R264	1-216-061-00	RES, CHIP 3.3K (J21MF2J)				
R264	1-216-065-00	RES, CHIP 4.7K (2199M5J)				
R265	1-216-061-00	RES, CHIP 3.3K (J21MF2J)				
R265	1-216-065-00	RES, CHIP 4.7K (2199M5J)				
R266	1-216-073-00	RES, CHIP 10K				
R301	1-216-073-00	RES, CHIP 10K				
R302	1-216-063-91	RES, CHIP 3.9K				
R303	1-216-025-91	RES, CHIP 100				
R304	1-216-025-91	RES, CHIP 100				
R305	1-216-025-91	RES, CHIP 100				
R306	1-216-025-91	RES, CHIP 100				
R307	1-216-025-91	RES, CHIP 100				
R308	1-216-033-00	RES, CHIP 220				
R309	1-216-033-00	RES, CHIP 220				
R310	1-216-097-91	RES, CHIP 100K				
R311	1-216-075-00	RES, CHIP 12K				
R312	1-216-025-91	RES, CHIP 100				
R313	1-216-061-00	RES, CHIP 3.3K				
R314	1-216-025-91	RES, CHIP 100				
R315	1-216-295-91	SHORT	0			
R316	1-216-065-00	RES, CHIP 4.7K				
R317	1-216-049-91	RES, CHIP 1.0K				
R318	1-216-099-00	RES, CHIP 120K				
R319	1-216-123-11	RES, CHIP 1.2M				
R320	1-216-083-00	RES, CHIP 27K				
R321	1-216-689-11	METAL CHIP	39K	0.50%	1/10W	
R322	1-216-083-00	RES, CHIP 27K				
R325	1-216-295-91	SHORT	0			
R326	1-216-063-91	RES, CHIP 3.9K				
R327	1-216-295-91	SHORT	0			
R328	1-216-295-91	SHORT	0			

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

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REF. NO.	PART NO.	DESCRIPTION				REMARK
R329	1-216-295-91	SHORT	0			
R330	1-216-043-91	RES, CHIP 560				
R331	1-216-117-00	RES, CHIP 680K				
R332	1-216-033-00	RES, CHIP 220				
R334	1-216-041-00	RES, CHIP 470				
R335	1-216-073-00	RES, CHIP 10K				
R336	1-216-057-00	RES, CHIP 2.2K				
R338	1-216-295-91	SHORT	0			
R339	1-216-036-00	RES, CHIP 300				
R340	1-216-035-00	RES, CHIP 270				
R341	1-216-049-91	RES, CHIP 1.0K				
R351	1-216-001-00	RES, CHIP 10				
R355	1-216-001-00	RES, CHIP 10				
R356	1-216-049-91	RES, CHIP 1.0K				
R360	1-208-291-11	RES, CHIP 4.7M				
R403	1-216-021-00	RES, CHIP 68				
R406	1-216-065-00	RES, CHIP 4.7K				
R407	1-216-063-91	RES, CHIP 3.9K				
R408	1-216-055-00	RES, CHIP 1.8K				
R409	1-216-025-91	RES, CHIP 100				
R410	1-216-073-00	RES, CHIP 10K (J21MF2J)				
R411	1-216-057-00	RES, CHIP 2.2K (J21MF2J)				
R412	1-216-069-00	RES, CHIP 6.8K (J21MF2J)				
R413	1-216-057-00	RES, CHIP 2.2K (J21MF2J)				
R414	1-216-041-00	RES, CHIP 470				
R415	1-216-033-00	RES, CHIP 220 (J21MF2J)				
R416	1-216-033-00	RES, CHIP 220				
R417	1-216-033-00	RES, CHIP 220 (J21MF2J)				
R418	1-216-045-00	RES, CHIP 680 (J21MF2J)				
R419	1-216-049-91	RES, CHIP 1.0K				
R420	1-216-039-00	RES, CHIP 390				
R421	1-216-033-00	RES, CHIP 220				
R422	1-216-027-00	RES, CHIP 120 (J21MF2J)				
R423	1-216-029-00	RES, CHIP 150 (J21MF2J)				
R424	1-216-057-00	RES, CHIP 2.2K				
R425	1-216-039-00	RES, CHIP 390				
R426	1-216-029-00	RES, CHIP 150				
R427	1-216-037-00	RES, CHIP 330 (J21MF2J)				
R428	1-216-081-00	RES, CHIP 22K (J21MF2J)				
R429	1-216-031-00	RES, CHIP 180 (J21MF2J)				
R429	1-216-039-00	RES, CHIP 390 (2199M5J)				
R430	1-216-041-00	RES, CHIP 470 (J21MF2J)				
R431	1-216-081-00	RES, CHIP 22K (J21MF2J)				
R432	1-216-041-00	RES, CHIP 470 (J21MF2J)				
R433	1-216-081-00	RES, CHIP 22K				
R434	1-216-041-00	RES, CHIP 470				
R435	1-216-041-00	RES, CHIP 470 (J21MF2J)				
R436	1-216-081-00	RES, CHIP 22K (J21MF2J)				
R437	1-216-081-00	RES, CHIP 22K (J21MF2J)				
R440	1-216-029-00	RES, CHIP 150				
R521	1-216-049-91	RES, CHIP 1.0K				
R552	1-216-101-00	RES, CHIP 150K				
R553	1-216-081-00	RES, CHIP 22K				
R554	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
R555	1-249-429-11	CARBON	10K	5%	1/4W	
R556	1-216-049-91	RES, CHIP 1.0K				
R557	1-216-055-00	RES, CHIP 1.8K				
R560	1-216-295-91	SHORT	0			
R561	1-249-421-11	CARBON	2.2K	5%	1/4W	
R562	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R563	1-247-885-00	CARBON	180K	5%	1/4W	
R564	1-216-091-00	RES, CHIP 56K				
R565	1-216-091-00	RES, CHIP 56K				
R566	1-216-065-00	RES, CHIP 4.7K				
R569	1-247-883-00	CARBON	150K	5%	1/4W	
R570	1-216-295-91	SHORT	0			
R571	1-216-033-00	RES, CHIP 220				
R601	1-202-968-11	CEMENTED	1.2	5%	10W	

REF. NO.	PART NO.	DESCRIPTION				REMARK
R602	1-202-968-11	CEMENTED	1.2	5%	10W	
R606	1-215-915-11	METAL OXIDE	470	5%	3W	F
R610	1-215-924-00	METAL OXIDE	15K	5%	3W	F
R611	⚠ 1-202-933-61	FUSIBLE	0.1	10%	1/2W	F
R612	1-249-377-11	CARBON	0.47	5%	1/4W	F
R613	1-249-377-11	CARBON	0.47	5%	1/4W	F
R614	1-215-877-11	METAL OXIDE	22K	5%	1W	F
R615	1-249-389-11	CARBON	4.7	5%	1/4W	
R616	⚠ 1-218-265-91	METAL	8.2M	5%	1W	
R617	1-215-924-00	METAL OXIDE	15K	5%	3W	F
R618	1-249-377-11	CARBON	0.47	5%	1/4W	F
R619	1-249-377-11	CARBON	0.47	5%	1/4W	F
R622	1-217-192-21	WIREWOUND	0.22	10%	2W	F
R623	1-247-807-31	CARBON	100	5%	1/4W	
R624	1-216-446-00	METAL OXIDE	18	5%	2W	F
R625	1-249-424-11	CARBON	3.9K	5%	1/4W	
R626	1-249-420-11	CARBON	1.8K	5%	1/4W	
R627	1-249-417-11	CARBON	1K	5%	1/4W	
R628	1-249-417-11	CARBON	1K	5%	1/4W	
R629	1-249-399-11	CARBON	33	5%	1/4W	
R632	1-249-381-11	CARBON	1	5%	1/4W	
R636	1-215-924-00	METAL OXIDE	15K	5%	3W	F
R801	1-215-920-11	METAL OXIDE	3.3K	5%	3W	F
R802	1-249-385-11	CARBON	2.2	5%	1/4W	F
R803	1-216-057-00	RES, CHIP 2.2K				
R804	1-216-049-91	RES, CHIP 1.0K				
R805	1-216-081-00	RES, CHIP 22K				
R809	1-247-756-11	CARBON	2.2K	5%	1/2W	F
R811	1-216-343-00	METAL OXIDE	0.33	5%	1W	F
R812	1-216-075-00	RES, CHIP 12K				
R816	1-249-435-11	CARBON	33K	5%	1/4W	
R820	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W	
R821	1-215-911-11	METAL OXIDE	100	5%	3W	F
R822	1-216-429-00	METAL OXIDE	270	5%	1W	F
R823	1-249-931-11	CARBON	2.2K	5%	1/4W	F
R825	1-249-392-11	CARBON	8.2	5%	1/4W	F
R826	1-216-059-00	RES, CHIP 2.7K				
R827	1-216-095-00	RES, CHIP 82K				
R828	1-216-063-91	RES, CHIP 3.9K				
R829	1-216-053-00	RES, CHIP 1.5K				
R831	1-215-886-11	METAL OXIDE	100	5%	2W	F
R832	1-216-057-00	RES, CHIP 2.2K				
R834	1-216-073-00	RES, CHIP 10K				
R851	1-249-382-11	CARBON	1.2	5%	1/4W	F
R852	1-249-417-11	CARBON	1K	5%	1/4W	F
R853	1-249-377-11	CARBON	0.47	5%	1/4W	F
R854	1-249-377-11	CARBON	0.47	5%	1/4W	F
R855	1-202-818-00	SOLID	1K	20%	1/2W	
R856	1-249-429-11	CARBON	10K	5%	1/4W	
R857	1-249-438-11	CARBON	56K	5%	1/4W	
R858	1-216-370-11	METAL OXIDE	1.2	5%	2W	F
R860	1-247-887-00	CARBON	220K	5%	1/4W	
R881	1-216-043-91	RES, CHIP 560				
R882	1-216-059-00	RES, CHIP 2.7K				
R883	1-216-121-91	RES, CHIP 1.0M				
R895	1-216-349-00	METAL OXIDE	1	5%	1W	F
R898	1-249-421-11	CARBON	2.2K	5%	1/4W	
R902	1-216-065-00	RES, CHIP 4.7K				
R906	1-216-065-00	RES, CHIP 4.7K				
R907	1-216-043-91	RES, CHIP 560				
R908	1-216-059-00	RES, CHIP 2.7K				
R909	1-216-071-00	RES, CHIP 8.2K				
R910	1-216-043-91	RES, CHIP 560				
R911	1-216-059-00	RES, CHIP 2.7K				
R912	1-216-071-00	RES, CHIP 8.2K				
R913	1-216-041-00	RES, CHIP 470				
R914	1-216-041-00	RES, CHIP 470				
R1201	1-216-023-00	RES, CHIP 82				

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

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REF. NO.		PART NO.	DESCRIPTION	REMARK
R1202		1-216-049-91	RES, CHIP 1.0K	
R1203		1-216-089-91	RES, CHIP 47K	
R1204		1-216-089-91	RES, CHIP 47K (J21MF2J)	
R1205		1-216-023-00	RES, CHIP 82	
R1206		1-216-089-91	RES, CHIP 47K	
R1207		1-216-089-91	RES, CHIP 47K (J21MF2J)	
R1211		1-216-021-00	RES, CHIP 68	
R1212		1-216-049-91	RES, CHIP 1.0K	
R1213		1-216-049-91	RES, CHIP 1.0K (J21MF2J)	
R1214		1-216-113-00	RES, CHIP 470K (J21MF2J)	
R1215		1-216-113-00	RES, CHIP 470K	
R1216		1-216-113-00	RES, CHIP 470K	
R1218		1-216-041-00	RES, CHIP 470	
R1219		1-216-073-00	RES, CHIP 10K	
R1220		1-216-049-91	RES, CHIP 1.0K	
R1221		1-216-073-00	RES, CHIP 10K	
R1222		1-216-049-91	RES, CHIP 1.0K (J21MF2J)	
R1223		1-216-073-00	RES, CHIP 10K (J21MF2J)	
R1224		1-216-073-00	RES, CHIP 10K (J21MF2J)	
R1226		1-216-689-11	RES, CHIP 39K (J21MF2J)	
R1227		1-216-689-11	RES, CHIP 39K	
R1228		1-216-049-91	RES, CHIP 1.0K	
R1229		1-216-041-00	RES, CHIP 470	
R1230		1-216-073-00	RES, CHIP 10K	
R1231		1-216-049-91	RES, CHIP 1.0K	
R1232		1-216-063-91	RES, CHIP 3.9K	
R1233		1-216-057-00	RES, CHIP 2.2K	
R1234		1-216-088-00	RES, CHIP 43K (J21MF2J)	
R1235		1-216-088-00	RES, CHIP 43K (J21MF2J)	
R1235		1-216-689-11	RES, CHIP 39K (2199M5J)	
R1239		1-249-389-11	CARBON 4.7 5% 1/4W F	
R1240		1-216-025-91	RES, CHIP 100	
R1241		1-216-049-91	RES, CHIP 1.0K	
R1242		1-216-049-91	RES, CHIP 1.0K (J21MF2J)	
R1243		1-216-025-91	RES, CHIP 100	
R1244		1-216-025-91	RES, CHIP 100 (J21MF2J)	
R1245		1-216-037-00	RES, CHIP 330	
R1246		1-216-037-00	RES, CHIP 330	
R1247		1-216-041-00	RES, CHIP 470	
R1248		1-216-053-00	RES, CHIP 1.5K	
R1249		1-216-044-00	RES, CHIP 620	
R1250		1-216-119-00	RES, CHIP 820K	
R1251		1-216-119-00	RES, CHIP 820K	
R1252		1-216-061-00	RES, CHIP 3.3K	
R1253		1-216-053-00	RES, CHIP 1.5K (2199M5J)	
R1253		1-216-060-00	RES, CHIP 3.0K (J21MF2J)	
R1513		1-216-073-00	RES, CHIP 10K	
R1514		1-216-065-00	RES, CHIP 4.7K	
R1515		1-216-025-91	RES, CHIP 100	
			<SWITCH>	
S601	⚠	1-571-433-31	SWITCH, PUSH (AC POWER)	
S801		1-572-707-11	SWITCH, LEVER	
S901		1-571-532-21	SWITCH, TACTIL	
S902		1-571-532-21	SWITCH, TACTIL	
S903		1-571-532-21	SWITCH, TACTIL	
S904		1-571-532-21	SWITCH, TACTIL	
S905		1-571-532-21	SWITCH, TACTIL	
S906		1-571-532-21	SWITCH, TACTIL	
			<SPARK GAP>	
SG801		1-519-422-11	GAP, SPARK	
			<FILTER>	
SWF401		1-767-663-11	SAWF (2199M5J)	
SWF401		1-760-771-11	FILTER, SURFACE WAVE (J21MF2J)	

REF. NO.		PART NO.	DESCRIPTION	REMARK
			<TRANSFORMER>	
T601	⚠	1-429-137-21	TRANSFORMER, CONVERTER (SRT)	
T605	⚠	1-424-682-11	TRANSFORMER, LINE FILTER	
T801		1-437-195-11	TRANSFORMER, HORIZONTAL DRIVE	
T851	⚠	1-453-250-11	TRANSFORMER ASSY, FLYBACK	(NX-1746//M3A)
			<THERMISTOR>	
THP601	⚠	1-808-059-32	THERMISTOR, POSITIVE	
			<TUNER>	
TU101	⚠	8-598-323-00	TUNER BT-AG401	
			<CRYSTAL>	
X101		1-577-358-21	VIBRATOR, CERAMIC	
X300		1-411-752-11	COIL	
X358		1-567-505-11	OSCILLATOR, CRYSTAL	
X443		1-567-504-11	OSCILLATOR, CRYSTAL	

****

	*	A-1331-748-A	C BOARD, COMPLETE			
			**********			
		4-382-854-11	SCREW (M3X10), P, SW (+)			
			<CAPACITOR>			
C701		1-162-114-00	CERAMIC	0.0047MF		2KV
C702		1-102-074-00	CERAMIC	0.001MF	10%	50V
C703		1-107-651-11	ELECT	4.7MF	20%	250V
C704		1-130-202-00	FILM	0.022MF	5%	400V
C708		1-102-114-00	CERAMIC	470PF	10%	50V
C709		1-102-114-00	CERAMIC	470PF	10%	50V
C710		1-102-114-00	CERAMIC	470PF	10%	50V
C712		1-102-116-00	CERAMIC	680PF	10%	50V
C713		1-102-116-00	CERAMIC	680PF	10%	50V
C714		1-102-116-00	CERAMIC	680PF	10%	50V
C716		1-126-968-11	ELECT	100MF	20%	50V
C717		1-101-880-00	CERAMIC	47PF	5%	50V
C736		1-102-114-00	CERAMIC	470PF	10%	50V
C737		1-102-114-00	CERAMIC	470PF	10%	50V
C746		1-102-114-00	CERAMIC	470PF	10%	50V
			<CONNECTOR>			
CN701	*	1-508-766-00	PIN, CONNECTOR (5mm PITCH) 4P			
CN703	*	1-564-509-11	PLUG, CONNECTOR 6P			
CN704		1-695-915-11	TAB (CONTACT)			
			<DIODE>			
D701		8-719-911-19	DIODE 1SS119-25			
D702		8-719-911-19	DIODE 1SS119-25			
D703		8-719-911-19	DIODE 1SS119-25			
D707		8-719-911-19	DIODE 1SS119-25			
D708		8-719-911-19	DIODE 1SS119-25			
D709		8-719-911-19	DIODE 1SS119-25			
D710		8-719-911-19	DIODE 1SS119-25			
D711		8-719-911-19	DIODE 1SS119-25			
D712		8-719-911-19	DIODE 1SS119-25			
D716		8-719-911-19	DIODE 1SS119-25			
D717		8-719-121-24	DIODE RD9.1ESL			

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

C VM

REF. NO.	PART NO.	DESCRIPTION				REMARK
		<JACK>				
J701	⚠ 1-251-239-11	SOCKET, PICTURE TUBE				
		<COIL>				
L701	1-410-667-31	INDUCTOR 22UH				
		<TRANSISTOR>				
Q704	8-729-326-11	TRANSISTOR 2SC2611				
Q704	8-729-326-11	TRANSISTOR 2SC2611				
Q704	8-729-326-11	TRANSISTOR 2SC2611				
Q705	8-729-326-11	TRANSISTOR 2SC2611				
Q705	8-729-326-11	TRANSISTOR 2SC2611				
Q705	8-729-326-11	TRANSISTOR 2SC2611				
Q706	8-729-326-11	TRANSISTOR 2SC2611				
Q706	8-729-326-11	TRANSISTOR 2SC2611				
Q706	8-729-326-11	TRANSISTOR 2SC2611				
Q707	8-729-200-17	TRANSISTOR 2SA1091-O				
Q708	8-729-200-17	TRANSISTOR 2SA1091-O				
Q709	8-729-200-17	TRANSISTOR 2SA1091-O				
Q710	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q711	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q712	8-729-119-78	TRANSISTOR 2SC2785-HFE				
		<RESISTOR>				
R702	1-244-941-00	CARBON	680K	5%	1/2W	
R703	1-249-496-11	CARBON	100K	5%	1/2W	
R705	1-216-393-00	METAL OXIDE	2.2	5%	3W	F
R710	1-215-922-11	METAL OXIDE	6.8K	5%	3W	F
R711	1-247-762-11	CARBON	6.8K	5%	1/2W	
R712	1-215-922-11	METAL OXIDE	6.8K	5%	3W	F
R713	1-247-762-11	CARBON	6.8K	5%	1/2W	
R714	1-215-922-11	METAL OXIDE	6.8K	5%	3W	F
R715	1-247-762-11	CARBON	6.8K	5%	1/2W	
R719	1-215-480-00	METAL	300K	1%	1/4W	
R720	1-249-923-11	CARBON	1K	5%	1/4W	F
R721	1-215-489-00	METAL	680K	1%	1/4W	
R722	1-249-923-11	CARBON	1K	5%	1/4W	F
R723	1-215-479-00	METAL	270K	1%	1/4W	
R724	1-249-923-11	CARBON	1K	5%	1/4W	F
R725	1-249-419-11	CARBON	1.5K	5%	1/4W	
R726	1-249-419-11	CARBON	1.5K	5%	1/4W	
R727	1-249-419-11	CARBON	1.5K	5%	1/4W	
R728	1-249-407-11	CARBON	150	5%	1/4W	
R729	1-249-408-11	CARBON	180	5%	1/4W	
R730	1-249-408-11	CARBON	180	5%	1/4W	
R731	1-249-399-11	CARBON	33	5%	1/4W	
R732	1-249-399-11	CARBON	33	5%	1/4W	
R733	1-249-399-11	CARBON	33	5%	1/4W	
R734	1-247-739-11	CARBON	100	5%	1/2W	
R738	1-247-807-31	CARBON	100	5%	1/4W	
R739	1-247-807-31	CARBON	100	5%	1/4W	
R740	1-247-807-31	CARBON	100	5%	1/4W	
R755	1-249-418-11	CARBON	1.2K	5%	1/4W	
R756	1-249-418-11	CARBON	1.2K	5%	1/4W	
R757	1-249-418-11	CARBON	1.2K	5%	1/4W	
		<VARIABLE RESISTOR>				
RV701	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M				

****

REF. NO.	PART NO.	DESCRIPTION				REMARK
*	A-1342-405-A	VM BOARD, COMPLETE				
		**********				
	4-382-854-11	SCREW (M3X10), P, SW (+)				
		<CAPACITOR>				
C1722	1-102-115-00	CERAMIC	560PF	10%	50V	
C1724	1-102-961-00	CERAMIC	27PF	5%	50V	
C1751	1-136-153-00	FILM	0.01MF	5%	50V	
C1761	1-161-830-00	CERAMIC	0.0047MF		500V	
C1763	1-107-638-11	ELECT	33MF	20%	160V	
C1764	1-126-933-11	ELECT	100MF	20%	16V	
C1768	1-106-383-00	MYLAR	0.047MF	10%	200V	
C1769	1-107-667-11	ELECT	2.2MF	20%	160V	
C1770	1-104-999-11	MYLAR	0.1MF	10%	200V	
C1771	1-126-964-11	ELECT	10MF	20%	50V	
C1772	1-126-933-11	ELECT	100MF	20%	16V	
C1773	1-106-383-00	MYLAR	0.047MF	10%	200V	
C1775	1-126-933-11	ELECT	100MF	20%	16V	
C1776	1-126-964-11	ELECT	10MF	20%	50V	
C1778	1-130-471-00	MYLAR	0.001MF	5%	50V	
C1779	1-130-471-00	MYLAR	0.001MF	5%	50V	
C1780	1-126-964-11	ELECT	10MF	20%	50V	
		<CONNECTOR>				
CN1701	* 1-564-511-61	PLUG, CONNECTOR 8P				
		<DIODE>				
D1761	8-719-911-19	DIODE 1SS119-25				
D1763	8-719-911-19	DIODE 1SS119-25				
D1764	8-719-911-19	DIODE 1SS119-25				
D1767	8-719-982-36	DIODE MTZJ-39B				
D1768	8-719-982-36	DIODE MTZJ-39B				
		<COIL>				
L1721	1-414-191-11	INDUCTOR 150UH				
L1722	1-408-621-31	INDUCTOR 330UH				
L1723	1-414-182-11	INDUCTOR 6.8UH				
L1761	1-410-478-11	INDUCTOR 47UH				
L1762	1-408-416-00	INDUCTOR 39UH				
		<TRANSISTOR>				
Q1722	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q1723	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q1756	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q1761	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q1762	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q1763	8-729-017-05	TRANSISTOR 2SA1837				
Q1764	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q1765	8-729-017-06	TRANSISTOR 2SC4793				
Q1766	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q1767	8-729-142-86	TRANSISTOR 2SC3733				
Q1777	8-729-326-11	TRANSISTOR 2SC2611				
		<RESISTOR>				
R1721	1-249-414-11	CARBON	560	5%	1/4W	
R1722	1-249-412-11	CARBON	390	5%	1/4W	
R1723	1-249-407-11	CARBON	150	5%	1/4W	
R1724	1-249-407-11	CARBON	150	5%	1/4W	
R1725	1-249-412-11	CARBON	390	5%	1/4W	
R1727	1-247-843-11	CARBON	3.3K	5%	1/4W	
R1728	1-249-429-11	CARBON	10K	5%	1/4W	
R1732	1-126-964-11	ELECT	10MF	20%	50V	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

VM

REF. NO.	PART NO.	DESCRIPTION			REMARK	
R1736	1-249-419-11	CARBON	1.5K	5%	1/4W	
R1753	1-249-434-11	CARBON	27K	5%	1/4W	
R1762	1-247-815-91	CARBON	220	5%	1/4W	
R1764	1-247-734-11	CARBON	39	5%	1/2W	F
R1765	1-249-414-11	CARBON	560	5%	1/4W	F
R1766	1-249-418-11	CARBON	1.2K	5%	1/4W	
R1768	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1769	1-249-384-11	CARBON	1.8	5%	1/4W	F
R1770	1-249-435-11	CARBON	33K	5%	1/4W	
R1772	1-249-432-11	CARBON	18K	5%	1/4W	
R1774	1-215-912-11	METAL OXIDE	150	5%	3W	F
R1775	1-249-417-11	CARBON	1K	5%	1/4W	F
R1776	1-249-432-11	CARBON	18K	5%	1/4W	
R1777	1-249-438-11	CARBON	56K	5%	1/4W	
R1778	1-249-430-11	CARBON	12K	5%	1/4W	
R1779	1-249-414-11	CARBON	560	5%	1/4W	
R1780	1-249-418-11	CARBON	1.2K	5%	1/4W	
R1781	1-249-410-11	CARBON	270	5%	1/4W	
R1782	1-249-384-11	CARBON	1.8	5%	1/4W	F
R1784	1-247-807-31	CARBON	100	5%	1/4W	
R1785	1-249-400-11	CARBON	39	5%	1/4W	F
R1786	1-249-435-11	CARBON	33K	5%	1/4W	
R1787	1-249-428-11	CARBON	8.2K	5%	1/4W	
R1788	1-249-419-11	CARBON	1.5K	5%	1/4W	
R1789	1-249-413-11	CARBON	470	5%	1/4W	
R1790	1-216-451-11	METAL OXIDE	120	5%	2W	F
R1791	1-249-411-11	CARBON	330	5%	1/4W	
R1812	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1851	1-249-393-11	CARBON	10	5%	1/4W	

****

REF. NO.	PART NO.	DESCRIPTION	REMARK
		MISCELLANEOUS	
		**********	
	⚠ 1-409-942-11	COIL, DEMAGNETIZATION	
	1-452-032-00	MAGNET,DISK ; 10mmø	
	1-452-277-00	MAGNET, BMC	
	⚠ 1-452-509-51	NECK ASSY, PICTURE TUBE (NA308)	
	1-503-902-11	SPEAKER (15X6.5 CM)	
	1-569-008-11	ADAPTOR, CONVERSION 2P	
	⚠ 1-574-062-11	CORD, POWER (WITH CONNECTOR)	2.5A/250V
	⚠ 8-451-280-33	DEFLECTION YOKE (Y21PXA2)	
	⚠ 8-738-774-05	PICTURE TUBE 21PXD(SDS) (A51JUH71X)	

****

	ACCESSORIES AND PACKING MATERIALS	
	**********	
	1-417-151-21	MATCHING TRANSFORMER, ANTENNA
	1-417-154-11	MATCHING TRANSFORMER, ANTENNA
	1-501-372-81	ANTENNA, TELESCOPIC
	1-501-730-11	ANTENNA, TELESCOPIC
	1-501-730-41	ANTENNA, TELESCOPIC
	1-569-008-11	ADAPTOR, CONVERSION 2P
	3-701-910-00	SCREW, SPECIAL (DIA. 3.8X20)
	3-862-260-11	MANUAL, INSTRUCTION
*	4-061-177-01	CUSHION (UPPER) (ASSY)
*	4-061-178-01	CUSHION (LOWER) (ASSY)
*	4-380-432-21	BAG, PROTECTION
	4-392-003-01	BAND, HOLD
	4-392-004-01	CLIP
		REMOTE COMMANDER
		**********
	1-475-358-12	REMOTE COMMANDER (RM-869)
	9-939-697-01	POCKET, COVER (FOR RM-869)

English
98AM08179-1
Printed in Japan
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SONY
SERVICE MANUAL

BG-2S CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.	MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-G14M2	RM-869	ME	SCC-U07C-A				
KV-G14M2S	RM-869	GE	SCC-U07C-A				
KV-G14P21S	RM-869	GE	SCC-U05L-A				
KV-G14P2S	RM-869	GE	SCC-U05H-A				
KV-G14Q2	RM-869	E	SCC-U03F-A				
KV-G14Q2	RM-869	ME	SCC-U07D-A				
KV-G14Q2S	RM-869	GE	SCC-U05J-A				
KV-G14S2	RM-869	OCE	SCC-U04B-A				

SUPPLEMENT-1

SUBJECT : PART CHANGE

File this supplement with the Service Manual.

SECTION 8 ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All resistors are in ohms
- F : nonflammable

CAPACITORS
- MF : μF, PF : μμF

COILS
- MMH : mH, UH : μH

(See page 51)

MODEL	REF. NO.	PART NO.	DESCRIPTION				SERIAL NO
KV-G14M2(ME)	C624	1-126-767-11	ELECT	1000MF	20%	16V	2010001 and later
KV-G14M2S(GE)	C624	1-126-767-11	ELECT	1000MF	20%	16V	1000501 and later
KV-G14P21S(GE)	C624	1-126-767-11	ELECT	1000MF	20%	16V	1001101 and later
KV-G14P2S(GE)	C624	1-126-767-11	ELECT	1000MF	20%	16V	1006001 and later
KV-G14Q2(E)	C624	1-126-767-11	ELECT	1000MF	20%	16V	1002551 and later
KV-G14Q2(ME)	C624	1-126-767-11	ELECT	1000MF	20%	16V	2036801 and later
KV-G14Q2S(GE)	C624	1-126-767-11	ELECT	1000MF	20%	16V	1007501 and later
KV-G14S2(OCE)	C624	1-126-767-11	ELECT	1000MF	20%	16V	1005451 and later

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9-965-645-81

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Display Company
TV Display Business Asia

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SERVICE MANUAL

BG-2S CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-G14M2	RM-869	ME	SCC-U07C-A
KV-G14M2S	RM-869	GE	SCC-U05G-A
KV-G14P21S	RM-869	GE	SCC-U05L-A
KV-G14P2S	RM-869	GE	SCC-U05H-A
KV-G14Q2	RM-869	E	SCC-U03F-A
KV-G14Q2	RM-869	ME	SCC-U07D-A
KV-G14Q2S	RM-869	GE	SCC-U05J-A
KV-G14S2	RM-869	OCE	SCC-U04B-A

MODEL	COMMANDER	DEST.	CHASSIS NO.

SUPPLEMENT-2

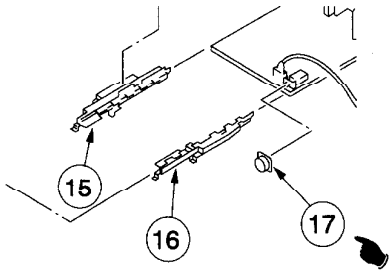
SUBJECT : PART CHANGE

File this correction with the Service Manual.

SECTION 7 EXPLODED VIEW

7-1. CHASSIS

(see page 47, 48)



MODEL	REF. NO.	PART NO.	DESCRIPTION	SERIAL NO.
KV-G14M2	17	4-056-186-03	BUTTON, POWER	2,018,801 and later
KV-G14M2S	17	4-056-186-03	BUTTON, POWER	1,002,207 and later
KV-G14P21S	17	4-056-186-03	BUTTON, POWER	1,002,151 and later
KV-G14P2S	17	4-056-186-03	BUTTON, POWER	1,012,601 and later
KV-G14Q2(E)	17	4-056-186-03	BUTTON, POWER	1,003,055 and later
KV-G14Q2(ME)	17	4-056-186-03	BUTTON, POWER	2,091,702 and later
KV-G14Q2S	17	4-056-186-03	BUTTON, POWER	1,013,661 and later
KV-G14S2	17	4-056-186-03	BUTTON, POWER	1,012,391 and later

MICROFILM

9-965-645-82

Sony Corporation
SONY TV Industries (M) Sdn. Bhd.
TV Business of General Area

English
98KG70227-1
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SERVICE MANUAL BG-2S CHASSIS

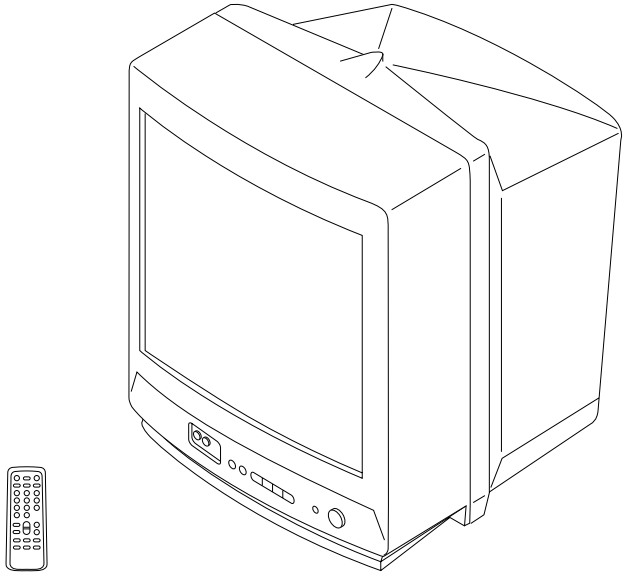
MODEL	COMMANDER	DEST.	CHASSIS NO.	MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-G14M2	RM-869	ME	SCC-U07C-A				
KV-G14M2S	RM-869	GE	SCC-U05G-A				
KV-G14P21S	RM-869	GE	SCC-U50L-A				
KV-G14P2S	RM-869	GE	SCC-U50H-A				
KV-G14Q2	RM-869	E	SCC-U30F-A				
KV-G14Q2	RM-869	ME	SCC-U70D-A				
KV-G14Q2S	RM-869	GE	SCC-U05J-A				
KV-G14S2	RM-869	OCE	SCC-U04B-A				

SUPPLEMENT-3

SUBJECT : PART CHANGE

File this supplement with the Service Manual.

Note: The following changes only apply to model KV-G14Q2/SV-10367(ME)
The effected serial number is 7,000,001~



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TRINITRON® COLOR TV

SONY®

SECTION 5
CIRCUIT ADJUSTMENTS

Adjustment Item Table

Item No.	Adj. Item	Data Range	Initial Data	Note for Different Data	Function	Device
00	HSF	00–3F	24		H Shift	TDA8375
01	HSZ	00-3F	23		H Size	(8A)
02	PAP	00-3F	21		Pin Amplitude	
03	CNP	00-3F	29		Corner Pin	
04	TLT	00-3F	20		Tilt	
05	VSL	00-3F	20		V Slope	
06	VAP	00-3F	1D		V Amplitude	
07	SCR	00-3F	20		S Correction	
08	VSF	00-3F	20		V Shift	
09	RDR	00-3F	25		R Drive	
0A	GDR	00-3F	20		G Drive	
0B	BDR	00-3F	20		B Drive	
0C	FO	00-03	00		TIME CONSTANT	
0D	AGC	00-3F	06		AGC Take Over	
0E	VSW	0-1	0		Video Mute Switch	
0F	FOR	00-03	00		Forced Field Frequency	
10	DL	0-1	0		De-interlace	
11	POC	0-1	0		Fixed ø1 Synchro. Mode	
12	COR	0-1	0		Noise Coring	
13	VPX	00-FF	00		Extra Bits (see below)	
14	PMX	00-3F	27		Picture Maximum Data	
15	PMI	00-3F	05		Picture Maximum Data	
16	SBR	00-7F	4B		Sub Brightness	
17	SHU	00-0F	07		Sub Hue	
18	SSH	00-03	01		Sub Sharpness	
19	SCI	00-3F	1F		Sub Color Lower	
1A	SC2	00-3F	0B		Sub Color Higher	
1B	AIP	00-7F	40		Adjustment IF-PLL	
1C	VZM	00-3F	20		Vertical Zoom	
1D	WST	00-FF	15		W/G Stereo Threshold	MSP3410D
1E	WBT	00-FF	EA		W/G Bilingual Threshold	(80)
1F	WLL	00-FF	05		W/G Monaural Threshold	
20	ACG	0-1	1		ACG Switch auto/constant	
21	CDB	00-3F	28		ACG Gain at Constant Mode	
22	FGP	00-7F	1B		FM Prescale for B/G, I. DK	
23	FMP	00-7F	32		FM Prescale for M	
24	FMH	00-7F	36		FM Prescale for HDEV (non-M)	
25	FMM	00-7F	65		FM Prescale for HDEV (M)	
26	WGP	00-7F	2A		W/G Prescale	
27	NIP	00-7F	6D		NICAM Prescale	
28	SCP	00-7F	3B		SCART Input Prescale	
29	SCV	00-7F	2A		SCART Output Prescale	
2A	CRM	0-1	0		Carrier Muting on/off	
2B	ACO	0-1	1		Audio Clock-out on/off	
2C	WAC	00-0F	00		W/G Agreement Count	
2D	NFT	00-FF	50		Auto FM Switch Threshold	
2E	DLG	00-FF	30		W/G Search Delay	
2F	DLN	00-FF	20		NICAM Search Delay	
30	DLS	00-FF	10		Stereo Status Read Delay	
31	SMX	00-7F	73		DFP Volume Maximum	
32	ING	00-0F	00		Input Gain	TDA7438
33	VOM	00-3F	01		Volume Output Gain	(88)
34	TXH	00-03	01		Teletext Horizontal Position	SAA5261(58)
35	BKP	00-3F	00		Picture Data at Blanking OFF	Other Control

Item No.	Adj. Item	Data Range	Initial Data	Note for Different Data	Function	Device
36	ODL	00–FF	10		Power on Delay	Other Control
37	OFR	00–0F	00		RGB Output Time (STBY OFF)	
38	OFM	00–0F	00		RGB Output Time (AC OFF)	
39	OSH	00–3F	0A		OSD H Position	
3A	DKS	0-1	1		D/K Stereo enable/disable	
3B	MUT	0-1	0		Muting on/off at No. Sync	
3C	ABL	0-1	0		Bright ABL Switch	
3D	SCM	0-1	0		SECAM Trap active/inactive	
3E	FBT	0-1	1		FBT L/S C/M stract/plain	
3F	OP0	00–FF	2F		Optional Flags 0 (see below)	
40	OP1	00-FF	0F		Optional Flags 1 (see below)	
41	OP2	00-FF	00		Optional Flags 2 (see below)	

NOTE

- Note for Different Data — Those are the standard data values written on the microprocessor. Therefore, the data values of the modes are stored respectively in the memory.
  In case of a device replacement, adjustment by rewriting the data value is necessary for some items.
- 50 ..... 50 Hz data
- 60 ..... 60 Hz data
- Note for Different Data listed on the adjustment item table are reference values, therefore it is different for every model.

Option Note

Item No. 13 VPX

Item	HCO	EVG	SBL	PRD	–	–	–	VID
Initial data	0	0	0	0	0	0	0	0

HCO EHT Tracking Mode 1 = on V and E–W. 0 = only on V
EVG Enable Vertical Guard 1 = enable. 0 = disable
SBL Service Blanking 1 = active. 0 = inactive
PRD Over-voltage Protection Detection 1 = enable. 0 = disable
VID Video Ident Mode 1 = not for ø1-loop 0 = for ø1-loop

Item No. 3E OP0

Item	No TOP	AV input		AVMUT	B/G	I	D/K	M
Initial data	0	1	0	0	1	1	1	1

AV Input 0 0 no AV input model 0 1 1 AV input model
1 0 2 AV input model 1 1 2 AV input and RGB input model
No TOP (for teletext model) 1 = only FLOF available. 0 = both FLOF and TOP available
AV MUT 1 = AV multi is always muted if no signal input. 0 = not muted always
Other optional bits are effective if set to 1.

Item No. 3F OP1

Item	No NICAM	–	HDEV	1 V-Curve	XTAL SEL		SECAM	2nd Lang.
Initial data	0	0	0	0	1	1	1	1

XTAL SEL 0 0 only 4.43 XTAL 0 1 only 3.58 XTAL
1 0 (not used) 1 1 both 4.43 and 3.58 XTAL
1 V-Curve (for monaural model)
1 = using common volume curve for every mode and every TV system
0 = another volume curve available for video mode and M system
HDEV 1 = High Deviation Mode switch available. 0 = not available
Other optional bits are effevctive if set to 1.

Item No. 40 OP2

Item	–	–	No. Bal	TV Out	Hotel	VM	D.B.F.B.	Thai Bil.
Initial data	0	0	0	0	0	0	0	0

No Bal. (for AV stereo model) 1 = no balance in analog select items. 0 = balance included
Other optional bits are effective if set to 1.
Hotel TV mode should be switched with remote commander from STBY condition as below.
Hotel TV on : push “display”. “8”. “vol +” and “power” sequentially
Hotel TV off : push “display”. “8”. “vol –” and “power” sequentially

A BOARD

ICÙ

IC001	D-11
IC002	E-10
IC003	E-10
IC004	I-13
IC005	E-10
IC100	E-7
IC102	E-7
IC201	B-7
IC203	B-10
IC300	D-4
IC351	D-8
IC354	D-7
IC401	B-7
IC521	E-8
IC551	J-6
IC601	J-8
IC602	H-7
IC603	H-7
IC801	F-6
IC1210	A-2
IC1211	B-3

TRANSISTOR

Q001	F-7
Q002	C-10
Q030	C-12
Q031	C-8
Q108	D-2
Q109	E-12
Q110	E-3
Q201	B-10
Q202	C-9
Q207	B-10
Q208	B-10
Q209	B-9
Q210	B-10
Q212	B-11
Q300	C-10
Q301	C-7
Q302	D-7
Q303	D-8
Q401	D-3
Q402	D-4
Q403	E-4
Q404	E-4
Q405	C-6
Q406	B-7
Q407	B-6
Q408	C-7
Q409	C-6
Q410	C-6
Q411	C-6
Q412	C-5
Q413	B-5
Q414	C-5
Q415	B-5
Q416	C-5
Q417	B-6
Q418	B-5
Q561	I-6
Q601	G-12
Q801	D-2
Q802	F-1
Q821	E-6
Q902	D-10
Q903	D-11
Q1201	A-3
Q1202	A-3
Q1203	A-2
Q1204	B-2
Q1205	B-3
Q1206	A-2
Q1207	A-2
Q1208	B-2
Q1209	C-4
Q1264	C-1
Q1265	C-1
Q1513	G-6

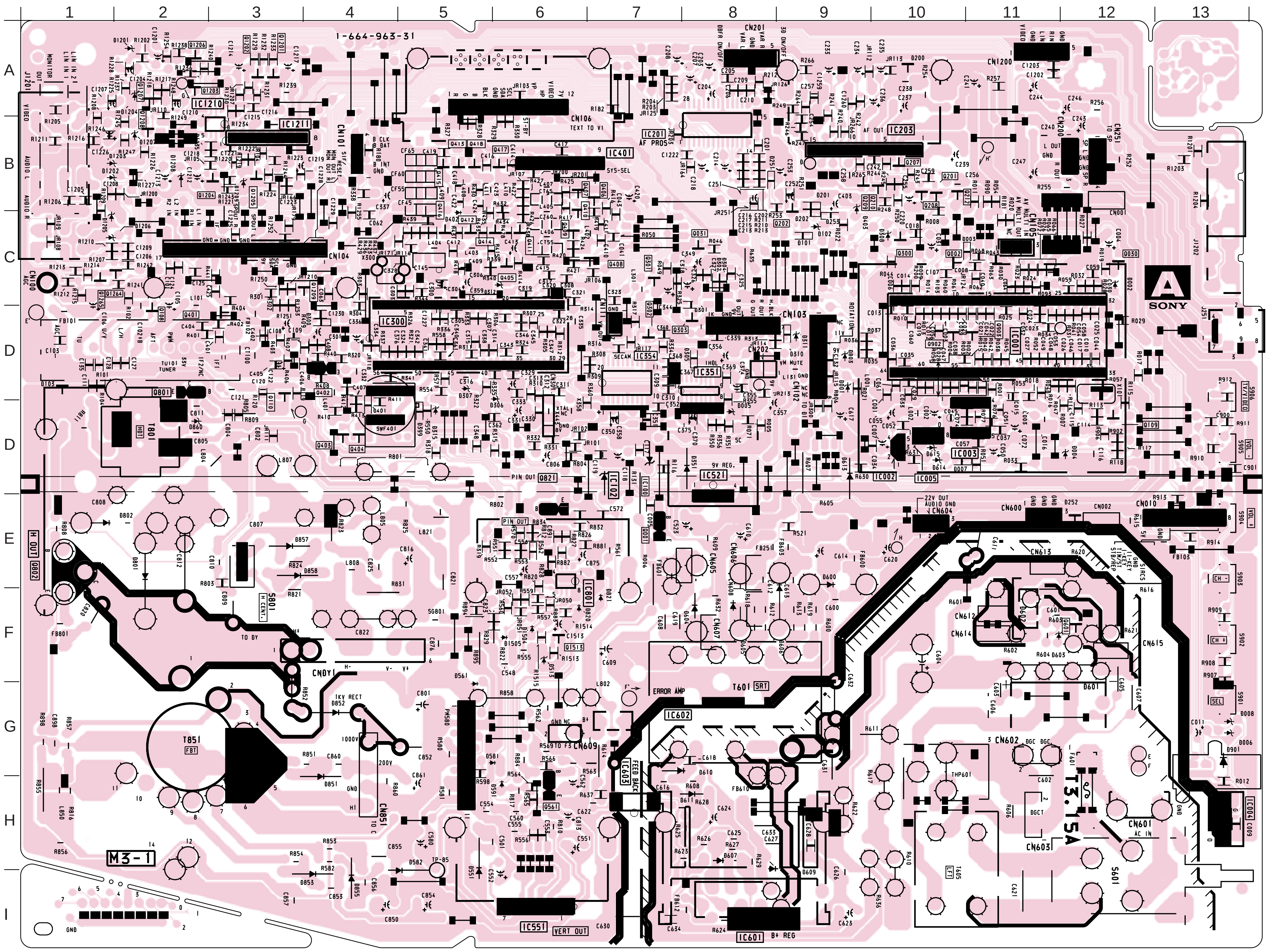
DIODE

D001	D-9
D002	C-12
D003	C-10
D004	E-12
D005	E-8
D006	H-13
D008	H-13
D101	C-9
D102	C-9
D103	D-1
D201	C-9
D251	B-8
D252	F-12
D253	C-9
D300	D-4
D301	D-8
D302	C-8
D304	C-8
D305	D-8
D306	E-6
D307	D-5
D308	C-10
D310	D-9
D311	D-9
D312	D-6
D315	E-5
D351	E-8
D399	E-5
D401	E-4
D402	C-5
D403	C-9
D513	G-6
D551	I-5
D561	G-5
D562	F-6
D581	H-5
D582	I-5
D591	I-6
D600	F-9
D601	H-12
D602	G-11
D603	G-11
D604	G-8
D605	G-8
D606	G-9
D607	I-8
D609	I-9
D610	H-8
D611	I-8
D613	E-9
D614	E-10
D615	E-10
D801	F-2
D802	F-2
D803	D-9
D820	G-6
D821	G-7
D851	I-4
D852	H-4
D853	J-4
D855	J-4
D857	F-3
D858	F-4
D860	E-2
D901	H-13
D1201	A-2
D1202	B-1
D1203	B-1
D1204	A-2
D1205	C-1
D1206	C-2
D1207	B-2
D1208	B-2
D1209	B-3
D1504	G-6
D1505	G-6

A [TUNER, IF, Y/C JUNGLE, SECAM DECODER, H/V OUT, MEMORY, SYSTEM CONTROLLER, AUSIO/VIDEO IN/OUT, POWER SUPPLY]

PRINTED WIRING BOARD

– A BOARD –



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SECTION 7
EXPLODED VIEW

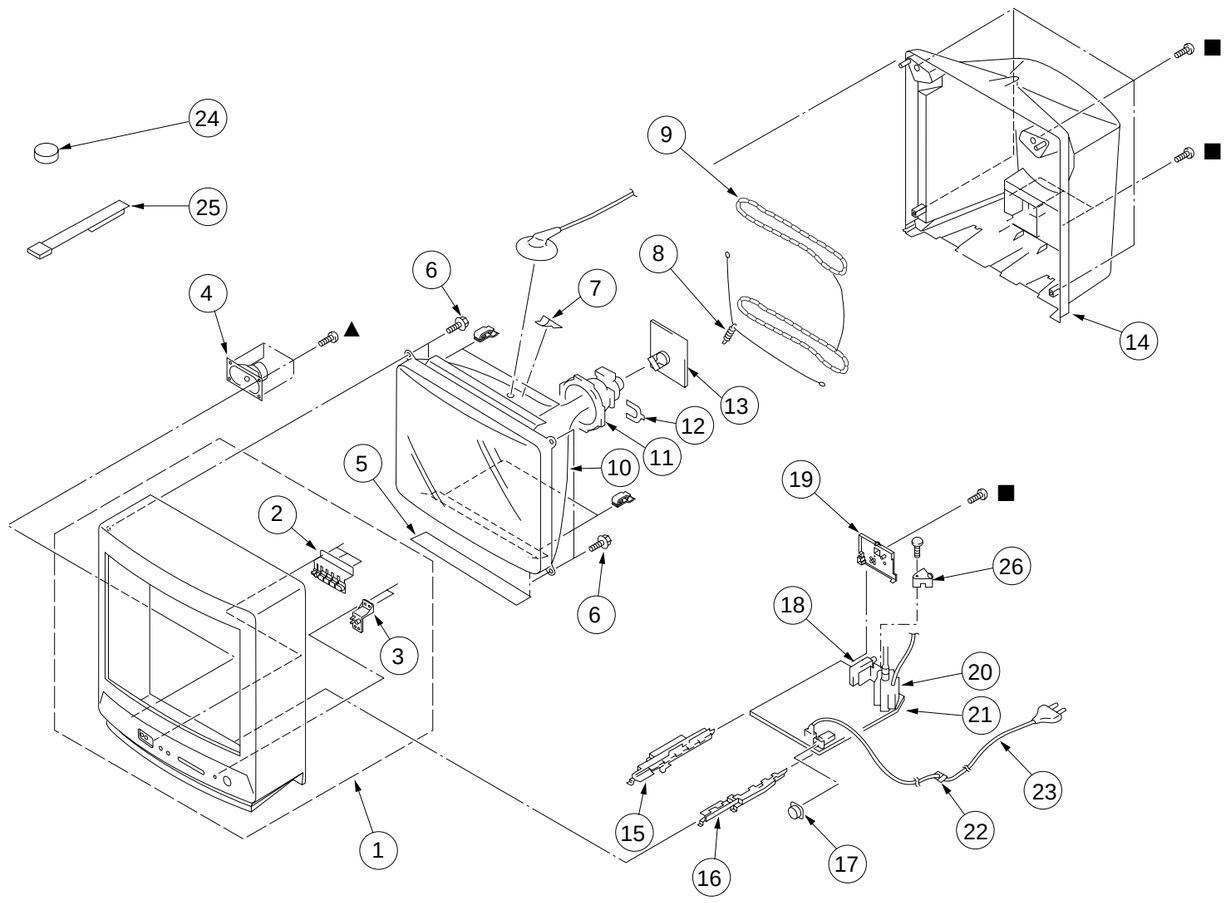
NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " ∗ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

7-1. CHASSIS

■ : BVTP4 × 16 7-685-663-71
▲ : BVTP3 × 12 7-685-648-71



REF.NO.		PART NO.	DESCRIPTION	REMARK
1		X-4036-472-1	BEZNET ASSY	
2		4-059-721-01	BUTTON, MULTI	
3		4-059-714-01	PLATE, GUIDE LIGHT	
4		1-505-547-11	SPEAKER (5X9CM)	
5		4-372-556-41	SHEET, BLOTTING	
6		4-365-808-41	SCREW (5), TAPPING	
7		4-064-818-01	SPACER, DY	
8		4-369-318-41	SPRING, TENSION	
9	⚠	1-426-145-41	COIL, DEGAUSSING	
10	⚠	8-735-562-05	PICTURE TUBE (A34JBU70X)	
11		8-451-418-51	DEFLECTION YOKE (Y14NDA2)	
12		1-452-277-00	MAGNET, BMC	
13	*	A-1331-704-A	C BOARD MOUNTED	
14	⚠	4-059-718-01	COVER, REAR	
15	*	4-059-713-01	RAIL (L), GUIDE	
16	*	4-059-712-01	RAIL (R), GUIDE	
17		4-059-708-02	BUTTON, POWER	
18		8-598-323-41	TUNER, VSS BT-AG401	
19		4-059-716-01	BRACKET, TERMINAL BOARD	
20	⚠	1-453-249-11	TRANSFORMER ASSY, FLYBACK (NX-1733)	
21	*	A-1299-065-A	A BOARD COMPLETE	
22		4-022-115-31	HOLDER, AC CORD	
23	⚠	1-574-062-11	CORD, POWER (WITH CONNECTOR) 2.5A/250V	
24		1-452-032-00	MAGNET,DISC	
25		4-051-736-41	PIECE A(90), CONV, CORRECT	
26		4-059-707-02	HOLDER, FBT	

SECTION 8
ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

CAPACITORS
- MF : µF, PF : µµF

COILS
- MMH : µH, UH : µH

REF.NO.	PART NO.	DESCRIPTION			REMARK
*	A-1299-065-A	A BOARD COMPLETE			
		**********			
	1-533-223-11	CLIP, FUSE			
*	1-580-798-11	CONNECTOR PIN (DY) 6P			
*	4-049-131-01	CASE (A), SHIELD			
*	4-059-707-01	HOLDER, FBT			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3			
		<CAPACITOR>			
C001	1-163-011-11	CERAMIC CHIP	0.0015MF	10%	50V
C002	1-126-965-11	ELECT	22MF	20%	50V
C004	1-126-961-11	ELECT	2.2MF	20%	50V
C006	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C007	1-126-959-11	ELECT	0.47MF	20%	50V
C008	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C009	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C010	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C011	1-104-664-11	ELECT	47MF	20%	16V
C013	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C014	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C015	1-101-884-00	CERAMIC	56PF	5%	50V
C016	1-101-884-00	CERAMIC	56PF	5%	50V
C017	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C018	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C019	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C020	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C021	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C022	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C023	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C024	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C025	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C026	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C027	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C028	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C029	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C032	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C034	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C035	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C036	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C037	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C038	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C040	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C042	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C044	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C045	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C046	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C047	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C048	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C049	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C050	1-126-960-11	ELECT	1MF	20%	50V
C051	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C052	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C053	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C054	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C055	1-124-480-11	ELECT	470MF	20%	25V
C056	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C057	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C058	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C059	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C060	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C061	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C064	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C072	1-124-480-11	ELECT	470MF	20%	25V
C074	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C101	1-163-029-11	CERAMIC CHIP	0.0047MF		50V
C105	1-104-665-11	ELECT	100MF	20%	16V
C106	1-126-964-11	ELECT	10MF	20%	50V
C108	1-126-942-61	ELECT	1000MF	20%	16V
C109	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C111	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C114	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C115	1-163-093-00	CERAMIC CHIP	10PF	5%	50V
C116	1-136-165-00	FILM	0.1MF	5%	50V
C117	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C118	1-126-965-11	ELECT	22MF	20%	50V
C119	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C120	1-130-493-00	MYLAR	0.068MF	5%	50V
C121	1-130-493-00	MYLAR	0.068MF	5%	50V
C122	1-104-665-11	ELECT	100MF	20%	16V
C124	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C125	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C127	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C128	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C234	1-126-964-11	ELECT	10MF	20%	50V
C235	1-104-664-11	ELECT	47MF	20%	16V
C236	1-104-666-11	ELECT	220MF	20%	25V
C237	1-104-665-11	ELECT	100MF	20%	16V
C238	1-136-167-00	FILM	0.15MF	5%	50V
C241	1-126-942-61	ELECT	1000MF	20%	25V
C242	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C243	1-126-965-11	ELECT	22MF	20%	50V

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The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION			REMARK
C244	1-126-942-61	ELECT	1000MF	20%	25V
C252	1-126-961-11	ELECT	2.2MF	20%	50V
C253	1-104-665-11	ELECT	100MF	20%	16V
C255	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C258	1-136-167-00	FILM	0.15MF	5%	50V
C300	1-104-664-11	ELECT	47MF	20%	16V
C301	1-126-964-11	ELECT	10MF	20%	50V
C304	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C305	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C306	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C307	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C308	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C309	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C310	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C312	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C313	1-104-665-11	ELECT	100MF	20%	16V
C314	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C315	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V
C316	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C317	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C319	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C320	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C321	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C322	1-216-295-91	SHORT	0		
C323	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C324	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C325	1-163-093-00	CERAMIC CHIP	10PF	5%	50V
C326	1-163-095-00	CERAMIC CHIP	12PF	5%	50V
C327	1-163-093-00	CERAMIC CHIP	10PF	5%	50V
C328	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C329	1-163-016-00	CERAMIC CHIP	0.0039MF	10%	50V
C330	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C331	1-126-964-11	ELECT	10MF	20%	50V
C332	1-136-165-00	FILM	0.1MF	5%	50V
C333	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C334	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V
C335	1-102-973-00	CERAMIC	100PF	5%	50V
C336	1-126-964-11	ELECT	10MF	20%	50V
C337	1-104-665-11	ELECT	100MF	20%	16V
C338	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V
C339	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C340	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C341	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C342	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C344	1-126-964-11	ELECT	10MF	20%	50V
C349	1-126-963-11	ELECT	4.7MF	20%	50V
C350	1-104-664-11	ELECT	47MF	20%	16V
C351	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C352	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
C358	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C359	1-104-665-11	ELECT	100MF	20%	16V
C361	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C367	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C368	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C369	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C370	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C374	1-126-967-11	ELECT	47MF	20%	50V
C375	1-126-967-11	ELECT	47MF	20%	50V
C376	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V
C402	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C403	1-126-965-11	ELECT	22MF	20%	50V
C405	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C406	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C407	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C408	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C410	1-163-103-00	CERAMIC CHIP	27PF	5%	50V
C411	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C413	1-104-665-11	ELECT	100MF	20%	16V
C415	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C423	1-163-129-00	CERAMIC CHIP	330PF	5%	50V
C501	1-102-228-00	CERAMIC	470PF	10%	500V
C523	1-104-665-11	ELECT	100MF	20%	16V
C548	1-106-220-00	MYLAR	0.1MF	10%	100V
C551	1-126-968-11	ELECT	100MF	20%	35V
C552	1-126-968-11	ELECT	100MF	20%	35V
C553	1-163-019-00	CERAMIC CHIP	0.0068MF	10%	50V
C554	1-102-244-00	CERAMIC	220PF	10%	500V
C555	1-101-804-00	CERAMIC	10PF	5%	500V
C562	1-104-665-11	ELECT	100MF	20%	16V
C603	1-161-830-00	CERAMIC	0.0047MF	99%	500V
C604	1-107-414-11	ELECT(BLOCK)	220MF	20%	400V
C605	1-161-830-00	CERAMIC	0.0047MF	99%	500V
C606	1-161-830-00	CERAMIC	0.0047MF	99%	500V
C607	1-161-830-00	CERAMIC	0.0047MF	99%	500V
C608	1-104-332-11	CERAMIC	470PF	10%	2KV
C609	1-123-024-21	ELECT	33MF		160V
C611 ⚠	1-113-900-11	CERAMIC	470PF	10%	250V
C613	1-102-824-00	CERAMIC	470PF	5%	50V
C614	1-126-943-11	ELECT	2200MF	20%	25V
C616	1-102-228-00	CERAMIC	470PF	10%	500V
C617	1-104-666-11	ELECT	220MF	20%	25V
C618	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C619	1-162-116-00	CERAMIC	680PF	10%	2KV
C621 ⚠	1-104-705-11	FILM	0.1MF	20%	250V
C622	1-106-383-00	MYLAR	0.047MF	10%	200V
C623	1-126-934-11	ELECT	220MF	20%	16V
C624	1-126-942-61	ELECT	1000MF	20%	16V
C625	1-102-074-00	CERAMIC	0.001MF	10%	50V
C627	1-162-116-00	CERAMIC	680PF	10%	2KV
C628	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C630 ⚠	1-113-900-11	CERAMIC	470PF	10%	250V
C631	1-161-830-00	CERAMIC	0.0047MF	99%	500V
C632 ⚠	1-113-900-11	CERAMIC	470PF	10%	250V
C633	1-161-754-00	CERAMIC	0.001MF	10%	3KV
C634	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C801	1-123-024-21	ELECT	33MF		160V
C802	1-107-364-11	MYLAR	0.01MF	10%	200V
C804	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C805	1-102-244-00	CERAMIC	220PF	10%	500V
C806	1-126-960-11	ELECT	1MF	20%	50V
C809	1-162-115-00	CERAMIC	330PF	10%	2KV
C810	1-106-365-00	MYLAR	0.0082MF	10%	200V
C811	1-101-821-00	CERAMIC	0.0022MF		500V
C812	1-136-075-00	FILM	0.008MF	3%	2KV
C816	1-107-636-11	ELECT	10MF	20%	160V
C820	1-162-116-00	CERAMIC	680PF	10%	2KV

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REF.NO.	PART NO.	DESCRIPTION			REMARK
C821	1-106-381-12	MYLAR	0.039MF	99%	200V
C822	1-136-121-00	FILM	0.27MF	5%	200V
C823	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C825	1-107-364-11	MYLAR	0.01MF	10%	200V
C850	1-124-480-11	ELECT	470MF	20%	25V
C852	1-104-574-11	CERAMIC	0.0047MF	10%	2KV
C853	1-162-318-11	CERAMIC	0.001MF	10%	500V
C854	1-124-480-11	ELECT	470MF	20%	25V
C856	1-162-318-11	CERAMIC	0.001MF	10%	500V
C857	1-130-493-00	MYLAR	0.068MF	5%	50V
C860	1-102-228-00	CERAMIC	470PF	10%	500V
C861	1-107-654-11	ELECT	33MF	20%	250V
C876	1-107-369-11	MYLAR	0.068MF	10%	100V
C898	1-106-379-12	MYLAR	0.033MF	10%	100V
C900	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C901	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C1201	1-104-665-11	ELECT	100MF	20%	16V
C1202	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1204	1-104-665-11	ELECT	100MF	20%	16V
C1205	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1210	1-104-665-11	ELECT	100MF	20%	16V
C1213	1-126-960-11	ELECT	1MF	20%	50V
C1214	1-104-665-11	ELECT	100MF	20%	16V
C1217	1-104-665-11	ELECT	100MF	20%	16V
C1218	1-163-123-00	CERAMIC CHIP	180PF	5%	50V
C1219	1-104-665-11	ELECT	100MF	20%	16V
C1221	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C1225	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C1226	1-126-934-11	ELECT	220MF	20%	16V
C1228	1-164-346-11	CERAMIC CHIP	1MF		16V
C1229	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C1230	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1260	1-163-019-00	CERAMIC CHIP	0.0068MF	10%	50V
C1513	1-126-968-11	ELECT	100MF	20%	50V
		<FILTER>			
CF55	1-567-099-00	FILTER, CERAMIC			
		<CONNECTOR>			
CN100 *	1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P			
CN101 *	1-508-797-00	PIN, CONNECTOR 4P			
CN103 *	1-564-509-11	PLUG, CONNECTOR 6P			
CN251 *	1-564-506-11	PLUG, CONNECTOR 3P			
CN601 *	1-580-843-11	PIN, CONNECTOR (POWER)			
CN602 *	1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P			
CN851 *	1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P			
		<TRIMMER>			
CT55	1-404-801-11	TRAP, CERAMIC			
		<DIODE>			
D001	8-719-109-81	DIODE RD4.7ESB2			
D002	8-719-911-19	DIODE 1SS119-25			

REF.NO.	PART NO.	DESCRIPTION	REMARK
D003	8-719-041-97	DIODE MA113-(TX)	
D005	8-719-109-84	DIODE RD5.1ESB1	
D008	8-719-109-89	DIODE RD5.6ESB2	
D103	8-719-914-42	DIODE DA204K	
D201	8-719-041-97	DIODE MA113-(TX)	
D202	1-216-295-91	SHORT 0	
D251	8-719-041-97	DIODE MA113-(TX)	
D252	8-719-914-42	DIODE DA204K	
D253	8-719-041-97	DIODE MA113-(TX)	
D300	8-719-041-97	DIODE MA113-(TX)	
D301	8-719-041-97	DIODE MA113-(TX)	
D302	8-719-041-97	DIODE MA113-(TX)	
D304	8-719-041-97	DIODE MA113-(TX)	
D305	8-719-041-97	DIODE MA113-(TX)	
D306	8-719-911-19	DIODE 1SS119-25	
D307	8-719-911-19	DIODE 1SS119-25	
D308	8-719-109-54	DIODE RD2.2ESB2	
D310	8-719-041-97	DIODE MA113-(TX)	
D311	8-719-109-68	DIODE RD3.6ESB1	
D312	8-719-110-08	DIODE RD8.2ESB2	
D315	8-719-121-26	DIODE RD9.1ESL2	
D351	8-719-908-03	DIODE GP08D	
D399	8-719-977-22	DIODE DTZ9.1	
D403	8-719-911-19	DIODE 1SS119-25	
D513	8-719-109-84	DIODE RD5.1ESB1	
D551	8-719-908-03	DIODE GP08D	
D561	8-719-911-19	DIODE 1SS119-25	
D591	8-719-911-19	DIODE 1SS119-25	
D604	8-719-301-64	DIODE RU4DS	
D606	8-719-510-73	DIODE S3L20UF4	
D607	8-719-510-46	DIODE D1NL20	
D609	8-719-510-46	DIODE D1NL20	
D610	8-719-510-46	DIODE D1NL20	
D611	8-719-510-46	DIODE D1NL20	
D801	8-719-945-80	DIODE ERC06-15S	
D851	8-719-302-43	DIODE EL1Z	
D852	8-719-028-72	DIODE RGP02-17EL-6433	
D853	8-719-302-43	DIODE EL1Z	
D855	8-719-302-43	DIODE EL1Z	
D857	8-719-908-03	DIODE GP08D	
D858	8-719-908-03	DIODE GP08D	
D860	8-719-911-19	DIODE 1SS119-25	
D901	1-810-039-11	LED UNIT	
D1201	8-719-121-26	DIODE RD9.1ESL2	
D1202	8-719-121-26	DIODE RD9.1ESL2	
D1207	8-719-121-26	DIODE RD9.1ESL2	
D1208	8-719-121-26	DIODE RD9.1ESL2	
D1504	8-719-911-19	DIODE 1SS119-25	
D1505	8-719-109-81	DIODE RD4.7ESB2	
		<FUSE>	
F601 ⚠	1-532-237-00	FUSE, TIME-LAG (BET) 3.15A/250V	

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REF.NO.	PART NO.	DESCRIPTION				REMARK
		<FERRITE BEAD>				
FB101	1-410-397-21	FERRITE	1.1UH			
FB102	1-410-397-21	FERRITE	1.1UH			
FB103	1-410-397-21	FERRITE	1.1UH			
FB601	1-410-397-21	FERRITE	1.1UH			
FB603	1-410-397-21	FERRITE	1.1UH			
FB610	1-410-397-21	FERRITE	1.1UH			
FB612	1-410-397-21	FERRITE	1.1UH			
		<IC>				
IC001	8-752-891-61	IC CXP85220A-060S				
IC002	8-759-805-37	IC L78LR05D-MA				
IC003	8-759-093-95	IC CAT24C04P				
IC004	8-742-041-12	HYB IC SBX1981-11				
IC100	8-759-157-40	IC UPC574J				
IC203	8-759-339-60	IC TA8248K				
IC300	8-759-365-25	IC TDA8374A				
IC351	8-759-565-20	IC TDA4665T/V5-118				
IC354	8-759-251-56	IC TDA8395T				
IC521	8-759-195-63	IC PQ09RE11				
IC551	8-759-801-98	IC LA7830				
IC601	8-749-014-00	IC STR-S6707N				
IC602	8-749-921-89	IC SE115N				
IC603 ⚠	8-749-010-64	PHOTO COUPLER PC123F2				
IC801	8-759-100-96	IC UPC4558G2				
IC1210	8-759-100-96	IC UPC4558G2				
IC1211	8-759-711-23	IC NJM2234L				
		<JACK>				
J251	1-770-785-11	JACK				
J1201	1-779-849-11	JACK BLOCK, PIN 4P				
J1202	1-779-205-11	JACK, PIN 2P				
		<CHIP CONDUCTOR>				
JR050	1-216-295-91	SHORT	0			
JR052	1-216-295-91	SHORT	0			
JR101	1-216-295-91	SHORT	0			
JR107	1-216-295-91	SHORT	0			
JR111	1-216-295-91	SHORT	0			
JR112	8-719-041-97	DIODE MA113-(TX)				
JR113	1-216-295-91	SHORT	0			
JR114	1-208-291-11	RES,CHIP	4.7M	5%	1/10W	
JR116	1-216-295-91	SHORT	0			
JR117	1-216-295-91	SHORT	0			
JR118	1-216-295-91	SHORT	0			
JR124	1-216-295-91	SHORT	0			
JR125	1-216-295-91	SHORT	0			
JR126	1-216-295-91	SHORT	0			
JR251	1-216-295-91	SHORT	0			
		<COIL>				
L001	1-408-397-00	INDUCTOR	1UH			
L002	1-410-509-11	INDUCTOR	10UH			
L003	1-408-605-31	INDUCTOR	15UH			

REF.NO.	PART NO.	DESCRIPTION				REMARK
L101	1-410-470-11	INDUCTOR	10UH			
L301	1-408-602-31	INDUCTOR	8.2UH			
L401	1-410-498-11	INDUCTOR	1.2UH			
L402	1-410-510-11	INDUCTOR	12UH			
L406	1-410-507-11	INDUCTOR	6.8UH			
L410	1-410-501-11	INDUCTOR	2.2UH			
L802	1-412-527-11	INDUCTOR	15UH			
L805	1-460-046-11	COIL, HORIZONTAL LINEARITY				
L807	1-459-348-51	COIL, VAR, FERRITE (HWC)				
L808	1-412-553-11	INDUCTOR	3.3MMH			
L821	1-406-677-11	INDUCTOR	10MMH			
L850	1-408-947-00	INDUCTOR	2.2MMH			
		<TRANSISTOR>				
Q030	8-729-422-27	TRANSISTOR 2SD601A-Q				
Q108	8-729-422-27	TRANSISTOR 2SD601A-Q				
Q109	8-729-422-27	TRANSISTOR 2SD601A-Q				
Q110	8-729-422-27	TRANSISTOR 2SD601A-Q				
Q202	8-729-216-22	TRANSISTOR 2SA1162-G				
Q207	8-729-216-22	TRANSISTOR 2SA1162-G				
Q208	8-729-421-19	TRANSISTOR UN2213				
Q210	8-729-424-67	TRANSISTOR UN2216				
Q301	8-729-421-22	TRANSISTOR UN2211				
Q303	8-729-422-27	TRANSISTOR 2SD601A-Q				
Q402	8-729-922-66	TRANSISTOR 2SC2410SN				
Q406	8-729-216-22	TRANSISTOR 2SA1162-G				
Q408	8-729-422-27	TRANSISTOR 2SD601A-Q				
Q409	8-729-216-22	TRANSISTOR 2SA1162-G				
Q414	8-729-422-27	TRANSISTOR 2SD601A-Q				
Q561	8-729-200-17	TRANSISTOR 2SA1091-O				
Q801	8-729-140-50	TRANSISTOR 2SC3209LK				
Q802	8-729-810-49	TRANSISTOR 2SD1877S-SONY-CA				
Q902	8-729-421-19	TRANSISTOR UN2213				
Q903	8-729-421-19	TRANSISTOR UN2213				
Q1201	8-729-422-27	TRANSISTOR 2SD601A-Q				
Q1202	8-729-422-27	TRANSISTOR 2SD601A-Q				
Q1203	8-729-422-27	TRANSISTOR 2SD601A-Q				
Q1204	8-729-216-22	TRANSISTOR 2SA1162-G				
Q1207	8-729-422-27	TRANSISTOR 2SD601A-Q				
Q1208	8-729-422-27	TRANSISTOR 2SD601A-Q				
Q1209	8-729-422-27	TRANSISTOR 2SD601A-Q				
Q1265	8-729-424-67	TRANSISTOR UN2216				
Q1513	8-729-422-27	TRANSISTOR 2SD601A-Q				
		<RESISTOR>				
R65	1-216-033-00	RES,CHIP	220	5%	1/10W	
R001	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	
R002	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	
R003	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	
R004	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	
R007	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R008	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	
R010	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R012	1-216-017-91	RES,CHIP	47	5%	1/10W	
R013	1-216-049-91	RES,CHIP	1K	5%	1/10W	

REF.NO.	PART NO.	DESCRIPTION			REMARK
R015	1-216-049-91	RES,CHIP	1K	5%	1/10W
R016	1-216-049-91	RES,CHIP	1K	5%	1/10W
R017	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R018	1-216-033-00	RES,CHIP	220	5%	1/10W
R019	1-216-101-00	RES,CHIP	150K	5%	1/10W
R021	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R022	1-216-295-91	SHORT	0		
R025	1-216-295-91	SHORT	0		
R026	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R027	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R028	1-216-025-91	RES,CHIP	100	5%	1/10W
R029	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R031	1-216-049-91	RES,CHIP	1K	5%	1/10W
R033	1-216-049-91	RES,CHIP	1K	5%	1/10W
R035	1-216-049-91	RES,CHIP	1K	5%	1/10W
R036	1-216-049-91	RES,CHIP	1K	5%	1/10W
R038	1-216-033-00	RES,CHIP	220	5%	1/10W
R040	1-216-033-00	RES,CHIP	220	5%	1/10W
R041	1-216-025-91	RES,CHIP	100	5%	1/10W
R042	1-216-039-00	RES,CHIP	390	5%	1/10W
R045	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R047	1-216-025-91	RES,CHIP	100	5%	1/10W
R048	1-216-025-91	RES,CHIP	100	5%	1/10W
R053	1-216-295-91	SHORT	0		
R054	1-216-073-00	RES,CHIP	10K	5%	1/10W
R057	1-216-049-91	RES,CHIP	1K	5%	1/10W
R060	1-216-037-00	RES,CHIP	330	5%	1/10W
R061	1-216-049-91	RES,CHIP	1K	5%	1/10W
R062	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R063	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R066	1-216-033-00	RES,CHIP	220	5%	1/10W
R068	1-216-025-91	RES,CHIP	100	5%	1/10W
R071	1-216-037-00	RES,CHIP	330	5%	1/10W
R072	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R076	1-216-025-91	RES,CHIP	100	5%	1/10W
R077	1-216-025-91	RES,CHIP	100	5%	1/10W
R090	1-216-073-00	RES,CHIP	10K	5%	1/10W
R101	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R102	1-216-049-91	RES,CHIP	1K	5%	1/10W
R113	1-216-081-00	RES,CHIP	22K	5%	1/10W
R114	1-216-041-00	RES,CHIP	470	5%	1/10W
R115	1-216-081-00	RES,CHIP	22K	5%	1/10W
R116	1-216-081-00	RES,CHIP	22K	5%	1/10W
R117	1-216-081-00	RES,CHIP	22K	5%	1/10W
R118	1-216-081-00	RES,CHIP	22K	5%	1/10W
R119	1-216-055-00	RES,CHIP	1.8K	5%	1/10W
R120	1-216-109-00	RES,CHIP	330K	5%	1/10W
R131	1-216-464-11	METAL OXIDE	18K	5%	2W F
R180	1-216-033-00	RES,CHIP	220	5%	1/10W
R181	1-216-033-00	RES,CHIP	220	5%	1/10W
R182	1-216-033-00	RES,CHIP	220	5%	1/10W
R240	1-216-043-91	RES,CHIP	560	5%	1/10W
R241	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
R242	1-216-037-00	RES,CHIP	330	5%	1/10W
R243	1-216-073-00	RES,CHIP	10K	5%	1/10W
R244	1-216-073-00	RES,CHIP	10K	5%	1/10W
R245	1-216-067-00	RES,CHIP	5.6K	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R248	1-216-071-00	RES,CHIP	8.2K	5%	1/10W
R250	1-216-071-00	RES,CHIP	8.2K	5%	1/10W
R251	1-216-049-91	RES,CHIP	1K	5%	1/10W
R252	1-247-815-91	CARBON	220	5%	1/4W
R253	1-216-073-00	RES,CHIP	10K	5%	1/10W
R254	1-249-389-11	CARBON	4.7	5%	1/4W
R257	8-719-041-97	DIODE MA113-(TX)			
R265	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R266	1-216-073-00	RES,CHIP	10K	5%	1/10W
R301	1-216-073-00	RES,CHIP	10K	5%	1/10W
R302	1-216-063-91	RES,CHIP	3.9K	5%	1/10W
R303	1-216-025-91	RES,CHIP	100	5%	1/10W
R304	1-216-025-91	RES,CHIP	100	5%	1/10W
R305	1-216-033-00	RES,CHIP	220	5%	1/10W
R306	1-216-033-00	RES,CHIP	220	5%	1/10W
R307	1-216-033-00	RES,CHIP	220	5%	1/10W
R308	1-216-033-00	RES,CHIP	220	5%	1/10W
R309	1-216-033-00	RES,CHIP	220	5%	1/10W
R310	1-216-097-91	RES,CHIP	100K	5%	1/10W
R311	1-216-075-00	RES,CHIP	12K	5%	1/10W
R312	1-216-025-91	RES,CHIP	100	5%	1/10W
R313	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R314	1-216-025-91	RES,CHIP	100	5%	1/10W
R315	1-216-295-91	SHORT	0		
R318	1-216-097-91	RES,CHIP	100K	5%	1/10W
R319	1-216-123-11	RES,CHIP	1.2M	5%	1/10W
R320	1-216-083-00	RES,CHIP	27K	5%	1/10W
R321	1-216-689-11	METAL CHIP	39K	0.50%	1/10W
R322	1-216-083-00	RES,CHIP	27K	5%	1/10W
R324	1-216-133-00	RES,CHIP	3.3M	5%	1/10W
R325	1-216-295-91	SHORT	0		
R326	1-216-063-91	RES,CHIP	3.9K	5%	1/10W
R327	1-216-295-91	SHORT	0		
R328	1-216-295-91	SHORT	0		
R329	1-216-295-91	SHORT	0		
R330	1-216-043-91	RES,CHIP	560	5%	1/10W
R331	1-216-117-00	RES,CHIP	680K	5%	1/10W
R332	1-216-033-00	RES,CHIP	220	5%	1/10W
R333	1-216-077-91	RES,CHIP	15K	5%	1/10W
R335	1-216-073-00	RES,CHIP	10K	5%	1/10W
R336	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R338	1-216-295-91	SHORT	0		
R339	1-216-036-00	RES,CHIP	300	5%	1/10W
R340	1-216-035-00	RES,CHIP	270	5%	1/10W
R341	1-216-049-91	RES,CHIP	1K	5%	1/10W
R351	1-216-001-00	RES,CHIP	10	5%	1/10W
R355	1-216-001-00	RES,CHIP	10	5%	1/10W
R356	1-216-049-91	RES,CHIP	1K	5%	1/10W
R360	1-208-291-11	RES,CHIP	4.7M	5%	1/10W
R403	1-216-021-00	RES,CHIP	68	5%	1/10W
R406	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R407	1-216-063-91	RES,CHIP	3.9K	5%	1/10W
R408	1-216-055-00	RES,CHIP	1.8K	5%	1/10W
R409	1-216-025-91	RES,CHIP	100	5%	1/10W
R414	1-216-041-00	RES,CHIP	470	5%	1/10W
R416	1-216-033-00	RES,CHIP	220	5%	1/10W
R419	1-216-049-91	RES,CHIP	1K	5%	1/10W
R420	1-216-039-00	RES,CHIP	390	5%	1/10W

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R421	1-216-033-00	RES,CHIP	220	5%	1/10W
R424	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R425	1-216-039-00	RES,CHIP	390	5%	1/10W
R426	1-216-029-00	RES,CHIP	150	5%	1/10W
R429	1-216-031-00	RES,CHIP	180	5%	1/10W
R433	1-216-081-00	RES,CHIP	22K	5%	1/10W
R434	1-216-041-00	RES,CHIP	470	5%	1/10W
R440	1-216-029-00	RES,CHIP	150	5%	1/10W
R521	1-216-049-91	RES,CHIP	1K	5%	1/10W
R555	1-249-427-11	CARBON	6.8K	5%	1/4W
R556	1-216-049-91	RES,CHIP	1K	5%	1/10W
R557	1-216-055-00	RES,CHIP	1.8K	5%	1/10W
R560	1-216-295-91	SHORT	0		
R561	1-249-421-11	CARBON	2.2K	5%	1/4W
R562	1-249-418-11	CARBON	1.2K	5%	1/4W F
R563	1-260-126-11	CARBON	180K	5%	1/2W
R564	1-216-091-00	RES,CHIP	56K	5%	1/10W
R565	1-216-091-00	RES,CHIP	56K	5%	1/10W
R566	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R569	1-260-125-11	CARBON	150K	5%	1/2W
R571	1-216-033-00	RES,CHIP	220	5%	1/10W
R605	1-216-396-11	METAL OXIDE	3.9	5%	3W F
R610	1-215-924-00	METAL OXIDE	15K	5%	3W F
R611	1-202-933-61	FUSIBLE	0.1	10%	1/2W F
R613	1-219-134-11	FUSIBLE	0.1	10%	1/4W
R614	1-215-877-11	METAL OXIDE	22K	5%	1W F
R615	1-249-389-11	CARBON	4.7	5%	1/4W
R616	⚠ 1-218-265-11	METAL	8.2M	5%	1W
R617	1-215-924-00	METAL OXIDE	15K	5%	3W F
R619	1-219-134-11	FUSIBLE	0.1	10%	1/4W
R620	1-202-962-11	CEMENTED	3.3	5%	10W
R622	1-207-615-00	WIREWOUND	0.33	10%	2W F
R623	1-247-807-31	CARBON	100	5%	1/4W
R624	1-216-446-00	METAL OXIDE	18	5%	2W F
R625	1-249-424-11	CARBON	3.9K	5%	1/4W
R626	1-249-420-11	CARBON	1.8K	5%	1/4W
R627	1-249-417-11	CARBON	1K	5%	1/4W
R628	1-249-417-11	CARBON	1K	5%	1/4W
R629	1-249-401-11	CARBON	47	5%	1/4W
R632	1-249-381-11	CARBON	1	5%	1/4W
R636	1-215-924-00	METAL OXIDE	15K	5%	3W F
R801	1-215-921-11	METAL OXIDE	4.7K	5%	3W F
R803	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R804	1-216-049-91	RES,CHIP	1K	5%	1/10W
R805	1-216-081-00	RES,CHIP	22K	5%	1/10W
R809	1-260-339-11	CARBON	8.2K	5%	1/2W F
R811	1-216-350-11	METAL OXIDE	1.2	5%	1W F
R816	1-249-437-11	CARBON	47K	5%	1/4W
R820	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R821	1-216-475-11	METAL OXIDE	120	5%	3W F
R822	1-216-429-00	METAL OXIDE	270	5%	1W F
R823	1-215-869-11	METAL OXIDE	1K	5%	1W F
R824	1-215-889-00	METAL OXIDE	330	5%	2W F
R825	1-249-392-11	CARBON	8.2	5%	1/4W F
R829	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R831	1-215-887-00	METAL OXIDE	150	5%	2W F
R834	1-216-065-91	RES,CHIP	4.7K	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R851	1-249-382-11	CARBON	1.2	5%	1/4W F
R852	1-249-417-11	CARBON	1K	5%	1/4W F
R853	1-249-377-11	CARBON	0.47	5%	1/4W F
R854	1-249-377-11	CARBON	0.47	5%	1/4W F
R855	1-260-107-11	CARBON	4.7K	5%	1/2W
R856	1-249-429-11	CARBON	10K	5%	1/4W
R857	1-249-440-11	CARBON	82K	5%	1/4W
R858	1-216-370-11	METAL OXIDE	1.2	5%	2W F
R860	1-247-887-00	CARBON	220K	5%	1/4W
R883	1-216-696-11	METAL CHIP	75K	0.50%	1/10W
R895	1-216-349-00	METAL OXIDE	1	5%	1W F
R898	1-249-421-11	CARBON	2.2K	5%	1/4W
R902	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R906	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R907	1-216-043-91	RES,CHIP	560	5%	1/10W
R908	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R909	1-216-071-00	RES,CHIP	8.2K	5%	1/10W
R910	1-216-043-91	RES,CHIP	560	5%	1/10W
R911	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R912	1-216-071-00	RES,CHIP	8.2K	5%	1/10W
R913	1-216-041-00	RES,CHIP	470	5%	1/10W
R914	1-216-041-00	RES,CHIP	470	5%	1/10W
R1201	1-216-023-00	RES,CHIP	82	5%	1/10W
R1202	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1203	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1205	1-216-023-00	RES,CHIP	82	5%	1/10W
R1206	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1211	1-216-021-00	RES,CHIP	68	5%	1/10W
R1212	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1215	1-216-113-00	RES,CHIP	470K	5%	1/10W
R1216	1-216-113-00	RES,CHIP	470K	5%	1/10W
R1218	1-216-041-00	RES,CHIP	470	5%	1/10W
R1219	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1220	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1221	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1227	1-216-689-11	RES,CHIP	39K	5%	1/10W
R1228	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1229	1-216-041-00	RES,CHIP	470	5%	1/10W
R1230	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1231	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1232	1-216-063-91	RES,CHIP	3.9K	5%	1/10W
R1233	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1235	1-216-689-11	RES,CHIP	39K	5%	1/10W
R1239	1-249-389-11	CARBON	4.7	5%	1/4W F
R1240	1-216-025-91	RES,CHIP	100	5%	1/10W
R1241	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1243	1-216-025-91	RES,CHIP	100	5%	1/10W
R1245	1-216-037-00	RES,CHIP	330	5%	1/10W
R1246	1-216-037-00	RES,CHIP	330	5%	1/10W
R1247	1-216-041-00	RES,CHIP	470	5%	1/10W
R1248	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R1249	1-216-041-00	RES,CHIP	470	5%	1/10W
R1250	1-216-119-00	RES,CHIP	820K	5%	1/10W
R1251	1-216-119-00	RES,CHIP	820K	5%	1/10W
R1252	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1253	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R1255	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1513	1-216-073-00	RES,CHIP	10K	5%	1/10W

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REF.NO.		PART NO.	DESCRIPTION			REMARK
R1514		1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1515		1-216-025-91	RES,CHIP	100	5%	1/10W
			<SWITCH>			
S601	⚠	1-571-433-21	SWITCH, PUSH (AC POWER)			
S801		1-572-707-11	SWITCH, LEVER			
S901		1-692-431-21	SWITCH, TACTILE			
S902		1-692-431-21	SWITCH, TACTILE			
S903		1-692-431-21	SWITCH, TACTILE			
S904		1-692-431-21	SWITCH, TACTILE			
S905		1-692-431-21	SWITCH, TACTILE			
S906		1-692-431-21	SWITCH, TACTILE			
			<SPARK GAP>			
SG801		1-519-422-11	GAP, SPARK			
			<SURFACE WAVE FILTER>			
SWF401		1-577-169-12	SAWF			
			<TRANSFORMER>			
T601	⚠	1-429-138-21	TRANSFORMER, CONVERTER (SRT)			
T605	⚠	1-424-682-11	TRANSFORMER, LINE FILTER			
T801		1-437-195-11	TRANSFORMER, HORIZONTAL DRIVE			
T851	⚠	1-453-249-11	FBT ASSY, NX-1733//M3A			
			<THERMISTOR>			
THP601	⚠	1-806-165-12	THERMISTOR (POSITIVE)			
			<TUNER>			
TU101		8-598-323-41	TUNER, VSS BT-AG401			
			<CRYSTAL>			
X101		1-577-358-21	VIBRATOR, CERAMIC			
X300		1-411-752-11	COIL			
X443		1-567-504-11	OSCILLATOR, CRYSTAL			
******	*	**********	**********			
	*	A-1331-704-A	C BOARD MOUNTED			
			**********			
			<CAPACITOR>			
C702		1-136-601-11	FILM	0.01MF	5%	630V
C704		1-107-651-11	ELECT	4.7MF	20%	250V
C705		1-102-116-00	CERAMIC	680PF	10%	50V
C706		1-102-116-00	CERAMIC	680PF	10%	50V
C707		1-102-117-00	CERAMIC	820PF	10%	50V

REF.NO.		PART NO.	DESCRIPTION			REMARK
C708		1-102-116-00	CERAMIC	680PF	10%	50V
C712		1-102-114-00	CERAMIC	470PF	10%	50V
C713		1-102-115-00	CERAMIC	560PF	10%	50V
C716		1-102-106-00	CERAMIC	100PF	10%	50V
			<CONNECTOR>			
CN701		1-695-915-11	TAB (CONTACT)			
CN703	*	1-564-509-11	PLUG, CONNECTOR 6P			
CN704	*	1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P			
			<DIODE>			
D701		8-719-991-33	DIODE 1SS133T-77			
D702		8-719-991-33	DIODE 1SS133T-77			
D703		8-719-991-33	DIODE 1SS133T-77			
D705		1-102-106-00	CERAMIC	100PF	10%	50V
D712		8-719-991-33	DIODE 1SS133T-77			
D713		8-719-991-33	DIODE 1SS133T-77			
D714		8-719-991-33	DIODE 1SS133T-77			
			<JACK>			
J701	⚠	1-251-192-11	SOCKET, CRT			
			<TRANSISTOR>			
Q701		8-729-200-17	TRANSISTOR 2SA1091-O			
Q702		8-729-200-17	TRANSISTOR 2SA1091-O			
Q703		8-729-200-17	TRANSISTOR 2SA1091-O			
Q704		8-729-326-11	TRANSISTOR 2SC2611			
Q705		8-729-326-11	TRANSISTOR 2SC2611			
Q706		8-729-326-11	TRANSISTOR 2SC2611			
			<RESISTOR>			
R701		1-260-133-11	CARBON	680K	5%	1/2W
R702		1-260-123-11	CARBON	100K	5%	1/2W
R703		1-260-135-11	CARBON	1M	5%	1/2W
R705		1-260-079-11	CARBON	22	5%	1/2W
R706		1-260-105-11	CARBON	3.3K	5%	1/2W
R707		1-260-105-11	CARBON	3.3K	5%	1/2W
R708		1-260-105-11	CARBON	3.3K	5%	1/2W
R709		1-215-899-11	METAL OXIDE	15K	5%	2W F
R711		1-215-899-11	METAL OXIDE	15K	5%	2W F
R713		1-215-899-11	METAL OXIDE	15K	5%	2W F
R714		1-247-807-31	CARBON	100	5%	1/4W
R717		1-215-409-00	METAL	330	1%	1/4W
R718		1-249-409-11	CARBON	220	5%	1/4W F
R719		1-247-807-31	CARBON	100	5%	1/4W
R720		1-216-346-00	METAL OXIDE	0.56	5%	1W F
R722		1-215-411-00	METAL	390	1%	1/4W
R725		1-249-409-11	CARBON	220	5%	1/4W F
R726		1-215-479-00	METAL	270K	1%	1/4W
R727		1-215-487-00	METAL	560K	1%	1/4W
R728		1-215-479-00	METAL	270K	1%	1/4W

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R730	1-247-807-31	CARBON	100	5%	1/4W
R731	1-249-409-11	CARBON	220	5%	1/4W F
R732	1-215-411-00	METAL	390	1%	1/4W
R733	1-247-791-91	CARBON	22	5%	1/4W
R734	1-247-791-91	CARBON	22	5%	1/4W
R735	1-247-791-91	CARBON	22	5%	1/4W
R749	1-249-424-11	CARBON	3.9K	5%	1/4W
R750	1-249-424-11	CARBON	3.9K	5%	1/4W
R751	1-249-424-11	CARBON	3.9K	5%	1/4W
		<VARIABLE RESISTOR>			
RV701	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M			
RV703	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M			
******	*	**********			
		MISCELLANEOUS			
		**********			
	1-426-145-41	COIL, DEMAGNETIZATION			
	1-452-032-00	MAGNET,DISC			
	1-452-277-00	MAGNET, BMC			
	1-505-547-11	SPEAKER (5X9CM)			
	1-569-008-21	ADAPTOR, CONVERSION 2P			
⚠	1-574-062-11	CORD, POWER (WITH CONNECTOR) 2.5A/250V			
	8-451-418-51	DEFLECTION YOKE (Y14NDA2-1)			
	8-598-323-41	TUNER,VSS BT-AG401			
⚠	8-735-562-05	PICTURE TUBE (A34JBU70X)			
******	*	**********			

REF.NO.	PART NO.	DESCRIPTION	REMARK
		ACCESSORIES AND PACKING MATERIALS	
		**********	
	1-417-151-21	MATCHING TRANSFORMER, ANTENNA	
	1-569-008-21	ADAPTOR, CONVERSION 2P	
	3-860-695-21	MANUAL, INSTRUCTION	
	1-501-730-41	ANTENNA, TELESCOPIC	
*	4-058-239-01	BAG, PROTECTION	
*	4-059-946-01	INDIVIDUAL CARTON	
*	4-059-947-01	CUSHION (UPPER) (ASSY)	
*	4-059-948-01	CUSHION (LOWER) (ASSY)	
******	*	**********	
		REMOTE COMMANDER	
		**********	
	1-475-358-11	REMOTE COMMANDER (RM-869)	
	9-939-697-01	BATTERY COVER, REMOTE COMMANDER	

Sony Corporation
SONY TV Industries (M) Sdn. Bhd.
TV Business of General Area

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SONY

SERVICE MANUAL

BG-2S CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-G14M2	RM-869	ME	SCC-U07C-A
KV-G14M2S	RM-869	GE	SCC-U07C-A
KV-G14P21S	RM-869	GE	SCC-U05L-A
KV-G14P2S	RM-869	GE	SCC-U05H-A
KV-G14Q2	RM-869	E	SCC-U03F-A
KV-G14Q2	RM-869	ME	SCC-U07D-A
KV-G14Q2S	RM-869	GE	SCC-U05J-A
KV-G14S2	RM-869	OCE	SCC-U04B-A

MODEL	COMMANDER	DEST.	CHASSIS NO.

CORRECTION-1

SUBJECT : CHASSIS NO. CHANGE

File this correction with the Service Manual.

☛ : Corrected portion

(See cover page)

INCORRECT				CORRECT			
KV-G14M2	RM-869	ME	SCC-U07C-A	KV-G14M2	RM-869	ME	SCC-U07C-A
KV-G14M2S	RM-869	GE	SCC-U07C-A	KV-G14M2S	RM-869	GE	☛ SCC-U05G-A
KV-G14P21S	RM-869	GE	SCC-U05L-A	KV-G14P21S	RM-869	GE	SCC-U05L-A
KV-G14P2S	RM-869	GE	SCC-U05H-A	KV-G14P2S	RM-869	GE	SCC-U05H-A
KV-G14Q2	RM-869	E	SCC-U03F-A	KV-G14Q2	RM-869	E	SCC-U03F-A
KV-G14Q2	RM-869	ME	SCC-U07D-A	KV-G14Q2	RM-869	ME	SCC-U07D-A
KV-G14Q2S	RM-869	GE	SCC-U05J-A	KV-G14Q2S	RM-869	GE	SCC-U05J-A
KV-G14S2	RM-869	OCE	SCC-U04B-A	KV-G14S2	RM-869	OCE	SCC-U04B-A

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